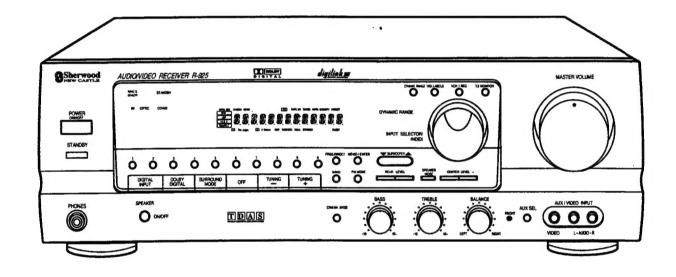
SERVICE MANUAL

R-925R/R-925RDS

AUDIO/VIDEO AC-3, PRO-LOGIC RECEIVER



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SAFETY PRECAUTIONS

WARNING

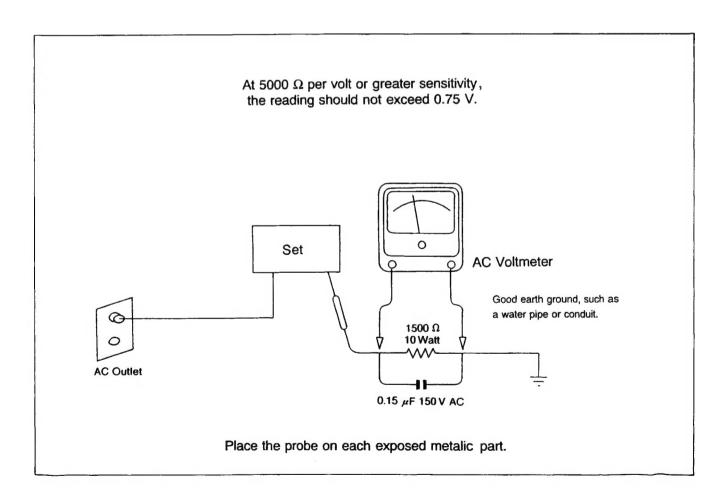
Before servicing this unit, familiarize yourself with the following precautions:

1. Many electrical and mechanical parts in this chassis have special safety characteristics that often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltge, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements: electrical components having such features are identified by in the schematic diagram and the parts list.

Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

Before returning the set to the customer, always do an AC leakage current check on the

exposed metal parts of the cabinet, such as terminals, screw heads, and metal overlays, to be sure the set is safe to operate danger of electrical shock. Plug the AC line cord directly into a 120 V AC outlet (120 V AC version only). (Do not use a line isolation transformer during this check.) Be sure your AC voltmeter has a sensitivity of 5000 Ω per volt or greater. Then connect a 1500 Ω 10 watt resistor, paralleled by a 0.15 µF 150 V AC capacitor, between a known good earth ground (such as a water pipe, or conduit) and the exposed metalic is parts, one at a time. Measure the AC voltage across the combination of a 1500 Ω resistor and a 0.15 μ F capacitor. Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metalic part. Voltage measured must not exceed 0.75V RMS. This corresponds to 0.2 mA AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



SPECIFICATIONS

FRONT AMP SECTION (ALL)

Measuring methods are based on IHF and IEC standard 268-3

Measurements conditions, unless otherwise noted:

Output resistive load = (8) ohms / Both channel driven

Tone(Bass,Treble), Balance, EQ control: Center Position, Other SW's: OFF Nominal input level: 5mV for MM, 0.5mV for MC, 500mV for general purpose inputs

Power figures should be kept minimum 10min. between 15 and 35 °C
Terminator: 100ohm for MC, 1kohm for MM and general purpose inputs

Filter: IHF-A filter. R/O = Rated Output

NO	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	LIMIT L/R	NOMINAL L/R
1	INPUT SENSITIVITY	CD	1kHz		mV	200±30	200±20
		MM	1kHz		mV	3.5±0.5	3.5±0.3
		MC	1kHz		mV		
		MIC	1kHz		mV		·
2	CHANNEL BALANCE	0.0	1kHz	R/O TO -40dB	dB	±3	±2
		CD	1kHz				
3	DAMPING FACTOR	CD	1kHz				
4	RESIDUAL NOISE	- CD	1kHz	VOL min.	mV	≤1	
		CD	1kHz	VOL max.	mV		
5	TOTAL HARMONIC DISTORTION		(20)Hz	R/O / 1W	%	≤0.2	≤0.09
		CD(500mV)	1kHz	"	%	≤0.2	≤0.09
			(20)KHz	"	%	≤0.3	≤0.2
6	CONTINUOUS AVERAGE POWER		(20)Hz	(8)ohms	W	100	102
	at (0.2)% THD	CD	1kHz	"	W	100	102
			(20)KHz	"	W	100	102
7	IMD(SMPTE)	00/500	60Hz=4	R/O	%	≤0.1	≤0.07
		CD(500mV)	7kHz=1	1W	%	≤0.1	≤0.07
8	S/N RATIO,IHF-A FILTER	CD/500) 0	1kHz	R/O	dB	≥90	≥93
		CD(500mV)	1kHz	1W	dB		
		1414/5 10	1kHz	R/O	dB	≥68	≥72
		MM(5mV)	1kHz	1W	dB		
		MC(0.5mV	1kHz	R/O	dB		
		MC(U.SMV	1kHz	1W	dB		
9	CHANNEL SEPARATION		100Hz	R/O-3dB	dB	≥45	≥55
		CD(500mV)	1kHz	"	dB	≥45	≥55
			10kHz	"	dB	≥40	≥ 45
10	FUNCTION CROSSTALK	CD→AUX	1/10 kHz	"	dB	≥60/40	≥ 65/45
		CD→MM	1/10 kHz	. "	dB	≥60/40	≥65/45
		MM→CD	1/10 kHz	"	dB	≥60/40	≥ 65/45
		→	1/10 kHz	"	dB		
11	FREQUENCY RESPONSE (-3dB)	CD(500mV)		1W	Hz~kHz	20~50	10~60
12	TONE CONTROL, ±(10)dB	CD	100Hz	1W	dB	±10±2	±10±1
		CD	10kHz	"	dB	±10±2	±10±1
13	SUBWOOFER OUT (1ch input)	CD(200mV)	30Hz	'M-Vol Max	V	1.6±0.3	1.6±0.2
14	PHONO EQUALIZATION	144	100Hz	TAPE OUT	dB	+13.1±1.5	+13.1±1
		W	10KHz	"	dB	-13.7±1.5	-13.7±1
15	INPUT OVERLOAD	CD	1kHz	S/P OUT	mV		
	at 0.5% THD	ММ	1kHz	TAPE OUT	mV	≥120	≥ 140
		MC	1kHz	"	mV		
		MIC	1kHz	"	mV		

NO	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	LIMIT L/R	NOMINAL L/R
16	HEADPHONE OUTPUT	CD	1kHz	R/O	mV		
	H/P = 64ohms	(150)mV	1kHz	R/O	mV		
17	FTC POWER 20Hz~20kHz		20Hz	ħ	W		
	at ()% THD CD	CD	1kHz	"	W		
			20kHz	"	W	<u> </u>	
18	DIN POWER at 1% THD	CD	1kHz	n	W		
19	DYNAMIC POWER OUTPUT	CD	41d Im	()-1	101		
	20 cycle ON,480 cycle OFF	CD	1kHz	()ohms	W		
20	POWER BANDWIDTH -3dB	CD		R/O	Hz~kHz		
21	SLEW RATE	CD	1kHz	R/O	V/usec		
22	SLEW-FACTOR	CD(500mV)					
23	INPUT IMPEDANCE	· CD	1kHz		kohm		
		MM	1kHz		kohm		
		MC	1kHz		kohm		
		MIC	1kHz		kohm		• •

REAR AMP SECTION

Measurements conditions : Input level (350mV)

Rear level max., Master volume adj. Delay time 20ms

NO	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	LIMIT L/R	NOMINAL L/R
1	POWER OUTPUT 1% THD	CD	1kHz	(8)ohms	W	≥90	≥93
2	TOTAL HARMONIC DISTORTION	CD	1kHz	1W	%	≤1	≤0.7
3	S/N RATIO DOLBY	CD		R/O	dB	≥55	≥63
	IHF-A FILTER, THEATER	CD		н	dB	≥55	≥63
	HALL	CD		"	dB	≥55	≥63
	STADIUM	CD		Ħ	dB	≥55	≥63
	CHURCH	CD		"	dB	≥55	≥63
4	FRE RES.(ONLY DOLBY) ±3dB	CD	1kHz	1W	Hz~kHz	100~6	80~7

CENTER AMP SECTION

Measurements conditions : Input level (350mV)

Center level max., Master volume adj.

NO	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	LIMIT L/R	NOMINIAL LR
1	POWER OUTPUT at 0.3% THD	CD	1kHz	(8)ohms	W	≥90	≥93
2	TOTAL HARMONIC DISTORTION	CD	1kHz	1W	%	≤0.3	≤0.2
3	S/N RATIO,IHF-A FILTER	CD		R/O	dB	≥55	≥60
4	FRE. RESPONSE LARGE	CD		1W	Hz~kHz	20~18K	15~2OK
	DOLBY MODE SMALL	CD		1W	Hz~kHz	135~18K	120-2 O K

VIDEO SECTION

NO	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	LIMIT L/R	NOMNIAL LR
1	OUTPUT LEVEL at 75ohms	VCR1(1Vp-p)	1MHz		Vp-p	1±0.2	1 ±0. 1
2	FREQUENCY RESPONSE	п	1MHz		Hz~MHz	DC~6	DC-6,3
3	S/N RATIO	и	1MHz		dB	40	45
4	CROSSTALK	"	1MHz		dB	40	45

● AC-3 SECTION (ALL)

Measurements conditions, unless otherwise noted: Input Function: LD

Digital Input Mode : LD RF

Speker Mode : Center:LARGE, Sub-Woofer:YES Main Vol Position : 1 Vrms Output Position

Trim Vol Position : All "0 dB" Test Point : Pre-Out

Test disc : DOLBY TEST LD VERSION 1.0

Center, Rear delay: 0 ms

NO	DESC	RIPTION	SIGNAL	INPUT	CHAPTER	UNIT	LIMIT	NOMINAL
1	Output Level		1kHz	0dB	38	V	0.9±0.3	0.9±0.2
	MEASUREMENT		L	С	R	LS	RS	25/8/
	Main Vol Level : "58"Position	Main Vol Level : "58"Position		0dB	18	V	3.0±0.8	3.0±0.5
	MEASL	JREMENT			B B		<u> E</u> E	sw
2	Output Level		1kHz	0dB	38	mV	≤0.2	≤0.15
	MEASU	JREMENT	L	С	R	LS	RS	
	at MIN.VOL.		30Hz	0dB	18	mV	≤0.2	≤0.15
	MEASU	JREMENT					FW	SW
3	S/N Ratio	PRE-OUT : 100mV "A"Weighted	1kHz	-20dB	6	dB	≥60	≥65
	MEASL	REMENT	L	С	R	LS	RS	SN
		PRE-OUT : 1V Unweighted	30Hz	0dB	18	dB	≥60	≥65
	MEASL	IREMENT		•		Ls:	- 4	SW
4	T.H.D	PRE-OUT: 100mV	1kHz	-20dB	6	%	≤0.5	≤0.3
	MEASL	IREMENT	L	С	R	LS	RS	, 3W
		PRE-OUT: 1V	30Hz	0dB	18	%	≤0.3	≤0.2
	MEASUREMENT			e e		LS	RS	SW
5	Channel Separation	L	1kHz	0dB	8	dB	Other (Channel
	MEASL	IREMENT		С	R	LS	RS	SW
		С	1kHz	0dB	10	dB	≥60	≥65
	MEASL	REMENT	L	0	R	LS	RS	SIV
		R	1kHz	0dB	12	dB	L <-	-> R
	MEASU	PREMENT	L	С		LS	RS	SW
		LS	1kHz	0dB	14	dB	≥50	≥55
	MEASL	IREMENT	L	С	R	LS	RS	SIV
		RS	1kHz	0dB	16	dB	ALL <> S	ub-Woofer
	MEASU	IREMENT	L	С	R	LS	THE STATE OF	SW
		sw	30Hz	0dB	18	dB	≥30	≥ 15
	MEASU	REMENT	L	С	R	LS	RS	
6	Frequency Response	Sub-woofer:YES Center:SMALL	30Hz (1kHz)	0dB	20 (38 :ref)	dB	≤-15	≤-20
	MEASL	JREMENT	L	С	R	LS	RS	
	at M-Vol Level:"50"	Rear:Yes	1kHz (30Hz)	0dB	38 (20 :ref)	dB	≤-30	≤-35
	MEASL	IREMENT						SW
·		Sub-woofer:NO Center:LARGE	30Hz (1kHz)	0dB	20 (38 :ref)	dB	8.5±1.5	8.5±1
	MEASU	JREMENT	L		R			59

NO	DESC	RIPTION	SIGNAL	INPUT	CHAPTER	UNIT	LIMIT	NOMINAL
7	Dialog Normalization		1kHz	0dB	43	dB	-10±1	-10±0.5
	MEASUREMENT		L	С	R	LS	RS	E ENE
	Main Vol Level : "50"Position MEASUREMENT		30Hz	0dB	43	dB	-10±1	-10±0.5
								sw
8	Down Mix level	AC-3 mode						
	MEASU	IREMENT					169	
	Main Vol Level :	Stereo Key : ON	1kHz	0dB	38	dB	-3.2±0.5	-3.2±0.3
	MEASL	JREMENT	L	G	R	13	12	500
	"50"Position	Sub-woofer : NO						
	MEASU	IREMENT		=6_		13	145	-5W
9	Down Mix Frequency Response Main Vol Level : "50"Position	same as above	30Hz(1kHz)	0dB	20(38:ref)	dB	±1	±0.5
	MEASU	JREMENT	L		R	LS	145	3811
10	Channel across level	C-> L, R Center 0dB Setting Center : No	1kHz	0dB	10	dB	-3 ± 1	-3 ± 0.5
	MEASU	IREMENT	L		R	13		31/1
	Main Vol level	Ls-> L Ls 0dB Setting Rear : No	1kHz	0dB	14	dB	-3 ± 1	-3 ± 0.5
	MEASU	IREMENT	L	•		33	183	5 70
	"58" Position	Rs-> R Rs 0dB Setting Rear: No	1kHz	0dB	16	dB	-3 ± 1	-3 ± 0.5
	MEASL	IREMENT		e e	R		F&	8W
		SubWoofer -> L, R Sub 0dB Setting , Sub : No	30Hz	0dB	18	dB	-5.5 ± 1	-5.5 ± 0.5
	MEASUREMENT		L		R	18		30
11	LFE Signal across level	L/C/R/Ls/Rs -> Sub Out (1) Sub : Yes	30Hz	0dB	20	٧	1.8 ±0.5	1. 8 ± 0.3
	MEASU	JREMENT		G .		LS	R	SW
	Main Vol level	L/C/R/Ls/Rs -> Sub Out (2) (1): 0dB, Stereo: On, Sub: Yes	30Hz	0dB	20	dB	-11 ± 2	-11± 1
	MEASL	IREMENT		C				SW
	"50" Position	C/Ls/Rs -> L, R (3) (2): 0dB, Stereo: On, Sub: No	30Hz	0dB	20	dB .	-5.5 ±3	·5.5 ± 2
	MEASU	IREMENT	L	e	R	LS	15 .	: 3W
12	LFE Signal across level	L/C/R/Ls/Rs/LFE-> Sub Out (1) Sub : Yes	30Hz	0dB	22	٧	2.5≤±0.8	25 ≤ ±0.5
	MEASL	JREMENT		- 0		B		sw
	Main Vol level	L/C/R/Ls/Rs/LFE ->Sub Out (2) (1): 0dB, Stereo: On, Sub: Yes	30Hz	OdB	22	dB	-11≤±2	.11≤±1
	MEASU	JREMENT	*				RS.	SW
	"50" Position	C/Ls/Rs/LFE -> L, R (3) (2): 0dB, Stereo: On, Sub: No	30Hz	0dB	22	dB	-6.5≤±3	გ. 5≤±2
	MEASU	JREMENT	L		R		RB	
13	Dynamic Range	Main Vol Level : "50" Position	1KHz	0dB	38	dB	-22≤±2	22≤±1
	MEASU	JREMENT	L	С	R	LS	RS	
		Sub-woofer : Yes	30Hz	0dB	18	dB	±1	±0.5
	MEASU	JREMENT				1.8	16	SW

FM SECTION

Measuring methods in confirmity with IEC standard 315

Measurements condition FM: Radio frequency = 98.1MHz, Audio frequency = 1kHz

Reference level = 1mV on (75ohms, 300ohms)

Deviation : MONO = ± 75 kHz, Stereo = ± 67.5 kHz ± 7.5 kHz (A, K)

MONO = ± 40 kHz, Stereo = ± 40 kHz ± 7.5 kHz (D/RDS)

Test Point: TP 1 = 90.1MHz, TP 2 = 98.1MHz, TP 3 = 106.1MHz (A, K)

TP 1 = 90.0MHz, TP 2 = 98.0MHz, TP 3 = 106.0MHz (D/RDS)

Filter = B.P.F at STEREO

NO	DESCRIPTION		UNIT	LIMIT L/R	NOMINAL L/R	VERSION
1	TUNING RANGE	LOW ~ HIGH	MHz	87.5~	107.9M	A, K
	STEP	AUTO/Man.	kHz	2	00	н
		LOW ~ HIGH	MHz	87.5~	108.0M	D/RDS
		AUTO/Man.	kHz	10	0/50	0
2	USABLE SENSITIVITY	TP 1	dBf	≤17.2	≤14.2	A, K
	S/N = 30dB	TP 2	dBf	≤17.2	≤14.2	
		TP 3	dBf	≤17.2	≤ 14.2	н
	USABLE SENSITIVITY	TP 1	dBf	≤17.2	≤14.2	D/RDS
	S/N = 26dB	TP 2	dBf	≤17.2	≤14.2	tr
		TP 3	dBf	≤17.2	≤14.2	11
3	FULL LIMITING SENSE	OUTPUT = -3dB	dBf	≤15.2	≤ 12.2	
4	AUTO STOP LEVEL		dBf	31.2±5	31.2±3	
5	AUTO SCAN ERROR	1	kHz	±20	±25	A, K
			kHz	± 15	±20	D/RDS
6	S/N RATIO	MONO	dB	≥65	≥70	
	IHF-A FILTER	STEREO	dB	≥60	≥65	
7	TOTAL HARMONIC DISTORTION	MONO	%	≤0.5	≤0.3	
		STEREO	%	≤0.8	≤0.5	
8	50dB QUIETING SENS.	MONO	dBf	≤23.2	≤20.2	A, K
		STEREO	dBf	≤48.3	≤45.3	tt
	46dB QUIETING SENS.	MONO	dBf	≤23.2	≤20.2	D/RDS
		STEREO	dBf	≤48.3	≤45.3	**
9	CHANNEL SEPARATION	100Hz	dB	≥35	≥40	A, K
		1kHz	dB	≥40	≥45	lt.
		10kHz	dB	≥30	≥35	**
		100Hz	dB	≥32	≥37	D/RDS
		1kHz	dB	≥37	≥42	63
		10kHz	dB	≥27	≥32	*1
10	FREQUENCY RESPONSE AT ±1.5dB		Hz	20~12.5K	10~14K	
11	SPURIOUS RESPONSE		dB	≥70	≥80	A, K
			dB	≥80	≥90	D/RDS
12	IF REJECTION	TP 1	dB	≥70	≥80	
13	IMAGE REJECTION	TP 3	dB	≥60	≥65	A, K
		TP 3	dB	≥70	≥80	D/RDS
14	AM REJECTION RATIO		dB	≥47	≥52	
15	RF INTERMODULATION		dB			
16	CAPTURE RATIO		dB	≤2.5	≤2	
17	ALTERNATIVE CH SELECTIVITY	± (400)kHz	dB	≥42	≥47	
19	OUPUT LEVEL MONO		mV	500 ± 150	500 ± 100	
20	RDS SENSITIVITY		dBf	≥40.2	≥38.2	RDS ONLY

AM SECTION

Measuring methods in confirmity with IEC standard 315

Measurements condition AM - MW: Radio frequency = 1000/999kHz, Audio frequency = 400Hz

LW: Radio frequency = 207kHz, Audio frequency = 400Hz

Reference level = 5mV/m,10mV/m on 50ohms

Modulation = 30%

Test Point: MW TP1 = (594)kHz TP2 = (999)kHz TP3 = (1404)kHz (K, D/RDS)

Test Point: MW TP1 = (600)kHz TP2 = (1000)kHz TP3 = (1400)kHz (A)

LW TP1 = (162)kHz TP2 = (207)kHz TP3 = (252)kHz

NO	DESCRIPTIO	N	UNIT	LIMIT L/R	NOMINAL L/R	VERSION
1	TUNING COVER RANGE	LOW ~ HIGH MW	kHz	522-	1611	K, D/RDS
		LW	kHz			н
	STEP	AUTO/Man.	kHz		9	19
		LOW ~ HIGH MW	kHz	520-	-1710	Α
		LW	kHz			"
		AUTO/Man.	kHz	1	10	"
2	USABLE SENSITIVITY	MW TP1	uV/m	≤800	≤500	
		TP 2	uV/m	≤800	≤500	
	S/N = 20dB	TP 3	uV/m	≤800	≤500	
		LW TP 1	uV/m			
		TP 2	uV/m			
		TP 3	uV/m			
3	S/N RATIO	MW	dB	≥35	≥40	K, D/RDS
		LW	dB			
		MW	dB	≥40	≥45	Α
		LW	dB			
4	TOTAL HARMONIC DISTORTION		%	≤2	≤ 1.0	K D/RDS
			%	≤1.5	≤1.0	Α
5	OVER LOAD DISTORTION 5mV 80%	MOD	%	≤10	≤5	
6	FREQUENCY RESPONSE at -6dB	MW	Hz	100~2K	80~2.2K	
		LW	Hz			
7	SELECTIVITY 10kHz/9kHz	MW	dB	≥20	≥25	
		LW	dB			
8	AGC FIGURE OF MERIT		dB	≥ 50	≥ 55	
9	IMAGE REJECTION	MW = TP 3	dB	≥30	≥35	
		LW = TP 3	dB			
10	WHISTLE MODULATION	2IF	%	≤15	≤10	
	INPUT = 1mV/m	3IF	%			
11	AUTO STOP LEVEL	MW	uV/m	800(±6dB)	800(±5dB)	
		LW	uV/m			
12	TUNED LEVEL	MW	uV/m	800(±6dB)	800(±5dB)	
		LW	uV/m			
13	OUTPUT LEVEL		mV	120 ± 50	120±30	A, K
			mV	150±50	150±30	D/IRDS

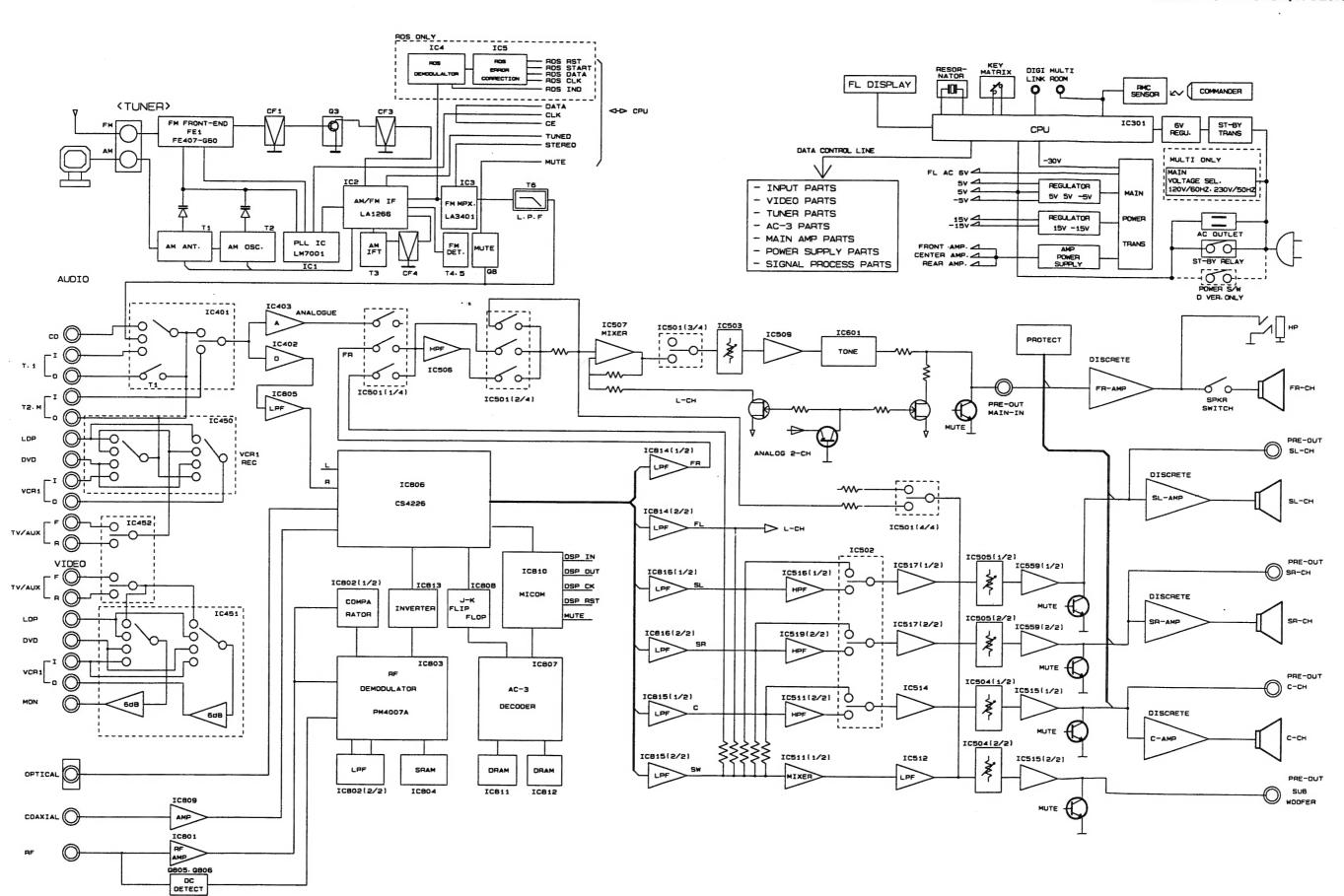
GENENAL

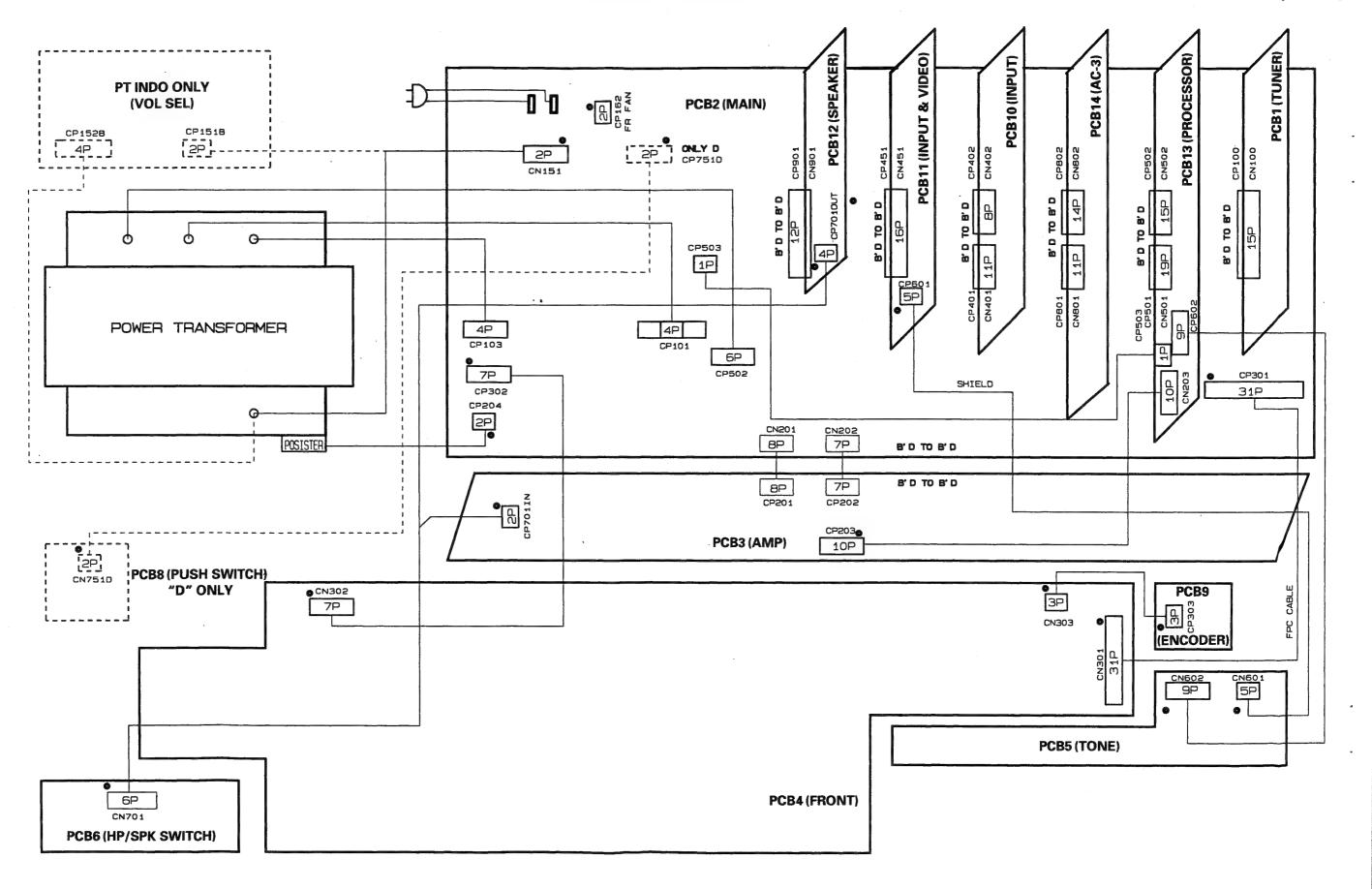
Power consumption	A : 2.3A, D : 550W, K : 450W
Power supplies	A : AC 120V, 50Hz (A Version)
	D: AC 220V, 50Hz (D/RD\$ ✓ ersion)
	K: AC 220V, 60Hz (K√ersion)
Dimensions (W \times H \times D)	440×125× 300mm
	17 - 5/16 × 4 - 15/16 × 1 1.8 inchs
Weight (Net)	· 10.5kg

NOTES

BLOCK DIAGRAM

Model No.: R-925R/R-925RDS

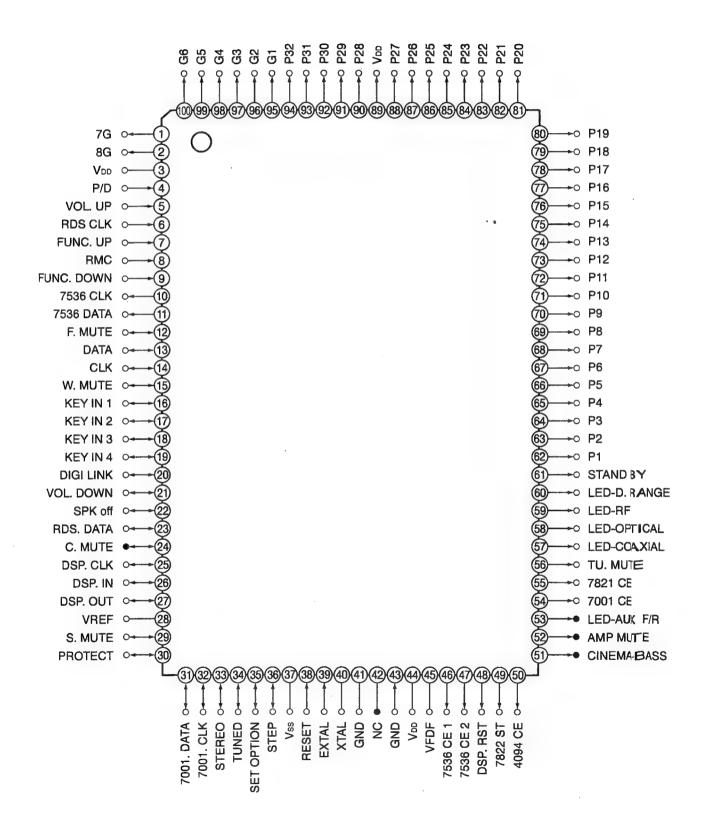




CIRCUIT DESCRIPTION

IC301: CXP-82852-114Q, DWP427

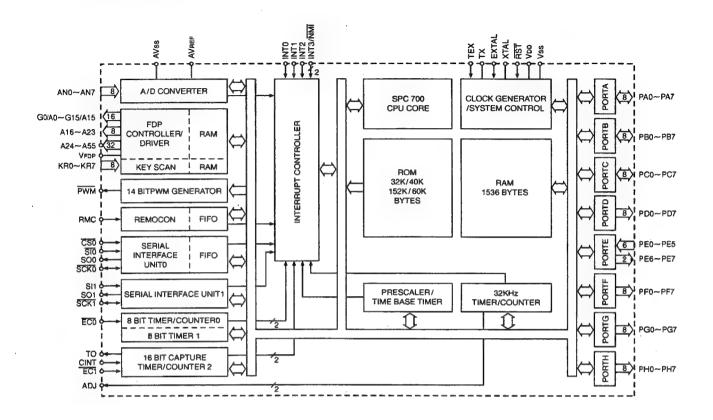
1. Pin Description



2. Main CPU Pin Functions

Z. Mail Of	O Pin Functions	
Pin No.	Symbol	Description
1~2	7G~8G	Grid signal output for FIP.
3	VDD	+5V power supply.
4	P/D	Input for power down.
5	VOL. UP	Input for main volume up.
6	RDS CLK	CLOCK signal output for TDA7330.
7	FUNC. UP	Input for main function up.
		input for remocon data.
8	RMC	Input for main function down.
9	FUNC. DOWN	
10	7536CLK	CLOCK signal output for LC7536
11	7536DATA	DATA signal output for LC7536
12	F. MUTE	Output for front channel mute.(At "H", it is active.)
13	DATA	DATA signal output for LC7821 and LC7822.
14	CLK	CLOCK signal output for LC7821 and LC7822.
15	W. MUTE	Output for subwoofer mute.(At "H", it is active.)
16~19	KEY IN1~4.	Data input for key scan.
20	DIGI LINK	Input/Output for controlling digi-link III
21	VOL. DOWN	Input for main volume down.
22	SPK OFF	Input for detecting "SPEAKER SWITCH IS OFF" condition.
23	RDS. DATA	Input for RDS data of TDA7330.
24	C. MUTE	Output for center channel mute.(At "H", it is active.)
25	DSP. CLK	CLOCK signal input from IC810(uPD78044, pin 9).
26	DSP. IN	DATA signal input from IC810(uPD78044, pin 11).
27	DSP. OUT	DATA signal output to IC810(uPD78044, pin 10).
28	VREF	Reference voltage.(Connected to +5V, Not VDD.)
29	S. MUTE	Output for surround channel mute.(At "H", it is active.)
30	PROTECT	Input for detecting "PROTECTION" condition.
31	7001. DATA	DATA signal output for LM7001.
32	7001. CLK	CLOCK signal output for LM7001.
33	STEREO	Input for detecting "STEREO" condition.
34	TUNED	Input for detecting "TUNED" condition.(At "L", it is active.)
35	SET OPTION	Input for selecting set.(5V:RDS Receiver, 0V:Receiver.)
36	STEP	Input for selecting the frequency ranges steps of FM and AM.
37	VSS	This pin provides the ground potential.
38	RESET	Input for resetting the CPU.(At "L", it is active.)
39	EXTAL	Input for 10MHz crystal oscillator.
40	XTAL	Output for 10MHz crystal oscillator.
41	G	Ground.
42	. 0	Not used!
43	G	Ground.
	VDD	+5V power supply.
44	The state of the s	
45	VFDF	-30V power supply for FIP.
46	7536CE1	Chip enable signal output to LC7536.(Front channel electric volume)
47	7536CE2	Chip enable signal output to LC7536.(Center, rear and woofer CH. electric vol.)
48	DSP. RST	RESET signal output to IC810(uPD78044, pin 17).
49	7822ST	Chip enable signal output to LC7822.
50	4094CE	LC7536 CHIP ENABLE(FRONT VR).
51	CINEMA-BASS	Output signal for Cinema-Bass function. (High Active)
52	AMP MUTE	Output for main mute.(At "H", it is active.)
53	LED-AUX F/R	Output to drive AUX FRONT/REAR LED.(At "H"-Front, "L"-Rear.)
54	7001CE	Chip enable signal output to LM7001.
55	7821CE	
56	TU. MUTE	Output for tuner mute.(At "H", it is active.)
57	LED-COAXIAL	Output to drive COAXIAL LED.(At "H", it is active.)
58	LED-OPTICAL	Output to drive OPTICAL LED.(At "H", it is active.)
59	LED-RF	Output to drive RF LED.(At "H", it is active.)
60	LED-D.RANGE	Output to drive Dynamic Range LED.(At "H", it is active.)
61	STAND BY	Output to drive Power relay & Stand-by LED.(At "H", it is active.)
62~70	P1~P9	Segment signal output for FIP.
71~80	P10~P19	Segment signal output for FIPand data output for key scan.
81~88	P20~P27	Segment signal output for FIP.
89	VDD	+5V power supply.
90~94	P28~P32	Segment signal output for FIP.
95~100	1G~6G	Grid signal output for FIP.

3. Block Diagram



4. Key Matrix

		KEY CHECK								
	KEY SCAN 0 KEY SCAN 1 KEY SCAN 2 KEY SCAN 3 KEY SCAN 4 KEY SCAN 5 KEY SCAN 6 KEY SCAN 7 KEY SCAN 8 KEY S							KEY SCAN 9		
	PIN 71	PIN 72	PIN 73	PIN 74	PIN 75	PIN 76	PIN 77	PIN 78	PIN 79	PIN 80
KEY IN1	SLEEP/	SEARCH	DSP	4	7	MEMORY	WOOFER	BAND	CENTER	DYNAMIC
PIN 16	ST-BY					ENTER	UP		LEVEL DW	RANGE
KEY IN2	AC-3	EON	PRO-	3	8	WOOFER	FM	PTY	CENTER	VCR1
PIN 17		TA	LOGIC			DOWN	MODE	SELECT	LEVEL UP	REC
KEY IN3	1	EON	TUNE	2	9	0	REAR	TURN		TAPE2
PIN 18		PTY	DOWN				LEVEL DW	UP		MONITOR
KEY IN4	POWER	DISPLAY	OFF	5	6	FREQUENCY	REAR	CINEMA	SPKR	VIDEO
PIN 19	(ST-BY)						LEVEL UP	BASE	MODE	LABELS

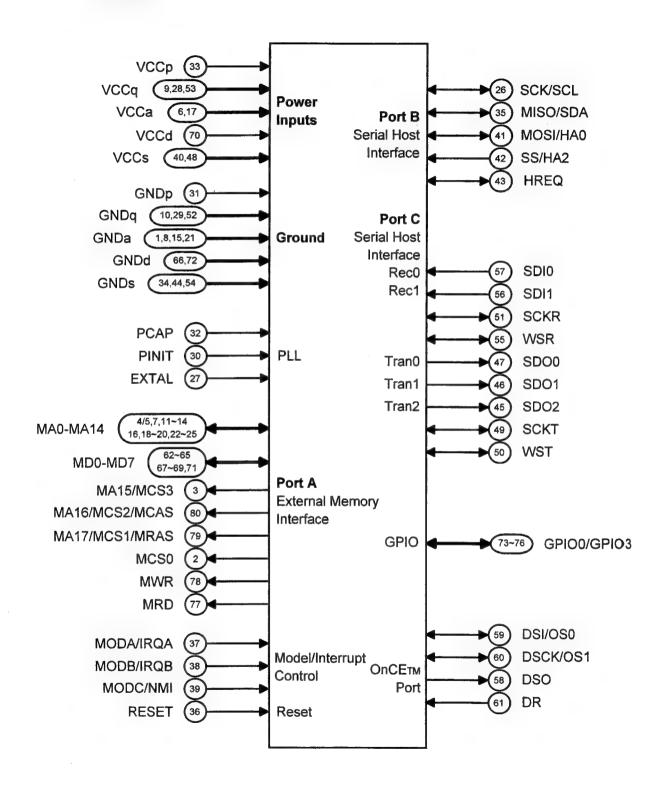
IC810: uPD78044

2-1.Sub CPU Pin Functions

Pin No.	Symbol	Description .			
1~7	Syllibol	Not used!			
8	VDD	+5V power supply.			
9	SCK0	CLOCK signal output to IC301(CXP82852, pin 25).			
10	SB1	DATA signal input from IC301(CXP82852, pin 27)			
11	SB0	DATA signal input from 10301(CXP82852, pin 27)			
	. 580				
12~13 14	SCK1	Not used! CLOCK signal output to IC807(MC56009) and IC806(CS4226).			
15	SO1	DATA signal output to IC807(MC56009) and IC806(CS4226).			
16	SI1	DATA signal input from IC807(MC56009) and IC806(CS4226).			
17	RESET	RESET signal input from IC301(CXP82852, pin 50)			
		Ground.			
18	P74	Ground.			
19	P73				
20 .	. AVSS	Ground.			
21	AN17	RESET signal output to IC806(CS4226).			
22	AN16	Not used!			
23	AN15	STROBE signal output to IC806(CS4226).			
24	AN14	Not used!			
25	AN13	Output for all channel mute.(At "L", it is active.)			
26~27		Not used!			
28	AN10	Sampling rate control port.(At "H", it is 48 kHz mode. At "L", it is 44.1 kHz mode.)			
29	AVDD	+5V power supply.			
30	AVREF	+5V power supply.			
31	XT1	Ground.			
32	XT2	Not used!			
33	VSS	This pin provides the ground potential.			
34	X1	Input for 4.19MHz crystal oscillator.			
35	X2	Output for 4.19MHz crystal oscillator.			
36	P37	Output for DSP mode.(At "H", it is active.)			
37	BUZ	General purpose I/O pin. This pin is connected pin 39 and pin 40			
38	PCL	IC803(PM4007) OSC control port.(At "H", it is OSC-OFF. At "L", it is OSC-ON.)			
39	TI2	This pin is connected pin 37 and pin 40			
40	TI1	This pin is connected pin 37 and pin 39			
41	TO2	Chip enable signal output to IC807(MC56009).			
42	TO1	RESET signal output to IC807(MC56009).			
43	TO0	Host request port from IC807(MC56009).			
44	C10	Test tone retry.(At "L", it is active.)			
45	INTP2	Input for detecting "OPTICAL INPUT".(At "L", it is active.)			
46	INP1	Input for detecting "COAXIAL INPUT".(At "L", it is active.)			
47	TI0	Input for detecting "AC-3 DATA" and "PCM DATA".(At "L", it is active.)			
48	IC	Ground.			
49~51		Not used!			
52	VDD	+5V power supply.			
53~70		Not used!			
71	VLOAD	Ground.			
72~80		Not used!			

IC807: DSP56009 ⇒ SIGNAL/CONNECTION DESCRIPTIONS

3-1.Pin Discription



3-2. Pin Function

SIGNAL GROUPINGS

Table 1-1 Functional Group Signal Allocations

Functional Group	Number of Signals	Detailed Description
Power (VCC)	9	Table 1-2
Ground (GND)	13	Table 1-3
Phase Lock Loop (PLL)	3	Table 1-4
External Memory Interface (EMI)	29	Table 1-5 and Table 1-6
Interrupt and Mode Control	4	Table 1-7
Serial Host Interface (SHI)	5	Table 1-8
Serial Audio Interface (SAI)	9	Table 1-9 and Table 1-10
General Purpose Input/Output (GPIO)	4	Table 1-11
On-Chip Emulation (OnCE) port	4	Table 1-12
Total	80	

POWER

Table 1-2 Power Inputs

Power Name	Description
Vccp	PLL Power - Vccp provides isolated power for the Phase Lock Loop (PLL).
Vccq	Quiet Power - Vccq provides isolated power for the internal processing logic.
Vcca	Address Bus Power - Vcca provides isolated power for sections of the address bus I/O drivers.
Vccd	Data Bus Power - Vccd provides isolated power for sections of the data bus I/O drivers.
Vccs	Serial Interface Power - Vccs provides isolated power for the SHI and SAI.

☞ GROUND

Table 1-3 Grounds

Ground Name	Description
GNDp	PLL Ground - GNDp is ground dedicated for PLL use.
GNDq	Quiet Ground - GNDq provides isolated ground for the internal processing logic.
GNDa	Address Bus Ground - GNDa provides isolated ground for sections of the
	address bus I/O drivers.
GNDd	Data Bus Ground - GNDd provides isolated ground for sections of the data
	bus I/O drivers.
GNDs	Serial Interface Ground - GNDs provides isolated ground for the SHI and SAL

☞ CLOCK AND PLL SIGNALS

Table 1-4 Clock and PLL Signals

Signal Name	Signal Type	State during Reset	Signal Description
EXTAL	Input	Input	External Clock/Crystal - This input should be connected to an external clock source.
PCAP	Input	Input	PLL Filter Capacitor - This input is used to connect a high-quality (high "Q" factor) external capacitor needed for the PLL filter.
PINIT	Input	input	PLL Initialization (PINIT) - During the assertion of hardware reset, the value on the PINIT line is written into the PEN bit of the PCTL register.

☞ EXTERNAL MEMORY INTERFACE (EMI)

Table 1-5 External Memory Interface (EMI) Signals

Signal Name	Signal Type	State during Reset	Signal Description
MA0 - MA14	Output	Table 1-6	Memory Address Lines 0-14 - The MA0-MA10 lines provide
			the multiplexed row/column addresses for DRAM accesses.
MA15	Output	Table 1-6	Memory Address Line 15 (MA15) - This line functions as the
			non-multiplexed address line 15.
MCS3			Memory Chip Select 3 (MCS3) - For SRAM accesses, this line
			functions as memory chip select 3.
MA16	Output	Table 1-6	Memory Address Line 16 (MA16) - This line functions as the
			non-multiplexed address line 16 or as memory chip select 2
			for SRAM accesses.
MCS2			Memory Chip Select 2 (MCS2) - For SRAM access, this line
			functions as memory chip select 2.
MCAS			Memory Column Address Strobe (MCAS) - This line
			functions as the Memory Column Address Strobe
			(MCAS) during DRAM accesses.
MA17	Output	Table 1-6	Memory Address Line 17 (MA17) - This line functions as the
			non-multiplexed address line 17.
MCS1			Memory Chip Select 1 (MCS1) - This line functions as chip
			select 1 for SRAM accesses.
MRAS			Memory Row Address Strobe (MRAS) - This line also
			functions as the Memory Row Address Strobe during
			DRAM accesses.
MCS0	Output	Table 1-6	Memory Chip Select 0 - This line functions as memory chip
			select 0 for SRAM accesses.
MWR	Output	Table 1-6	Memory Write Strobe - This line is asserted when writing to
			external memory.
' MRD	Output	Table 1-6	Memory Read Strobe - This line is asserted when reading
			external memory.
MD0 - MD7	Bidi-rectional	Tri-stated	Data Bus - These signals provide the bidirectional data bus or
			EMI accesses.

Table 1-6 EMI States during Reset and Stop States

Cianal	Operating Mode					
Signal	Hardware Reset	Software Reset	Individual Reset	Stop Mode		
MA0 - MA14	Driven High	Previous State	Previous State	Previous State		
MA15	Driven High	Driven High	Previous State	Previous State		
MCS3	Driven High	Driven High	Driven High	Driven High		
MA16	Driven High	Driven High	Previous State	Previous State		
MCS2	Driven High	Driven High	Driven High	Driven High		
MCAS:						
DRAM refresh disabled	Driven High	Driven High	Driven High	Driven High		
DRAM refresh enabled	Driven High	Driven High	Driven High	Driven High		
MA17	Driven High	Driven High	Previous State	Previous State		
MCS1	Driven High	Driven High	Driven High	Driven High		
MRAS:	_ //					
DRAM refresh disabled	Driven High	Driven High	Driven High	Driven High		
DRAM refresh enabled	Driven High	Driven High	Driven High	Driven High		
MCS0	Driven High	Driven High	Driven High	Driven High		
MWR	Driven High	Driven High	Driven High	Driven High		
MRD	Driven High	Driven High	Driven High	Driven High		

■ INTERRUPT AND MODE CONTROL

Table 1-7 Interrupt and Mode Control Signals

		1	
Signal Name	Signal Type	State during Reset	Signal Description
MODA	Input	Input (MODA)	Mode Select A - This input signal has three functions:
			 to work with the MODB and MODC signals to select
			the DSP's initial operating mode,
			 to allow an external device to request a DSP
			interrupt after internal synchronization, and
			 to turn on the internal clock generator when the DSP
			is in the Stop processing state, causing the DSP to
			resume processing.
			MODA is read and internally latched in the DSP when the
			processor exits the Reset state.
IRQA			External Interrupt Request A (IRQA) - The IRQA input is a
			synchronized external interrupt request.
MODB	Input	Input (MODB)	Mode Select B - This input signal has two functions:
			 to work with the MODA and MODC signals to select
			the DSP's initial operating mode, and
			 to allow an external device to request a DSP
			interrupt after internal synchronization.
			MODB is read and internally latched in the DSP when the
			processor exits the Reset state.
IRQB			External Interrupt Request B (IRQB) - The IRQB input is a
			synchronized external interrupt request.

Table 1-7 Interrupt and Mode Control Signals

Signal Name	Signal Type	State during Reset	Signal Description
MODC	Input,	Input (MODC)	Mode Select C - This input signal has two functions:
	edge-		 to work with the MODA and MODB signals to select
	triggered		the DSP's initial operating mode, and
			 to allow an external device to request a DSP
			interrupt after internal synchronization.
			MODC is read and internally latched in the DSP when the
			processor exits the Reset state.
NMI			Non-Maskable Interrupt Request - The NMI input is a
			negative-edge-triggered external interrupt request.
RESET	input	active	RESET - This input causes a direct hardware reset of the
			processor.

SERIAL HOST INTERFACE (SHI)

Table 1-8 Serial Host Interface (SHI) signals

Signal Name	Signal Type	State during Reset	Signal Description
SCK	Input or	Tri-stated	SPI Serial Clock (SCK) - The SCK signal is an output when
	Output		the SPI is configured as a master, and a Schmitt-trigger
			input when the SPI is configured as a slave.
SCL	Input or		I ² C Serial Clock (SCL) - SCL carries the clock for bus
	Output		transactions in the I ² C mode.
MISO	Input or	Tri-stated	SPI Master-In-Slave-Out (MISO) - When the SPI is
	Output		configured as a master, MISO is the master data input line.
SDA	Input or		I ² C Serial Data and Acknowledge (SDA) - in I ² C mode,
	Output		SDA is a Schmitt-trigger input when receiving and an
			open-drain output when transmitting.
MOSI	Input or	Tri-stated	SPI Master-Out-Slave-In (MOSI) - Then the SPI is configured
	Output		as a master, MOSI is the master data output line.
HA0	Input		I ² C Slave Address 0 (HA0) - This signal uses a
			Schmitt-trigger input when configured for the I2 C mode.
SS	Input	Tri-stated	SPI Slave Select (SS) - This signal is an active low
			Schmitt-trigger input when configured for the SPI mode.
HA2	Input		I ² C Slave Address 2 (HA2) - This signal uses a
			Schmitt-trigger input when configured for the I2 C mode.
HREQ	Input or	Tri-stated	Host Request - This signal is an active low Schmitt-trigger
	Output		input when configured for the Master mode, but an acive
			low output when configured for the Slave mode.

SERIAL AUDIO INTERFACE (SAI)

① SAI Receiver Section

Table 1-9 Serial Audio Interface (SAI) Receiver signals

Signal Name	Signal Type	State during Reset	Signal Description
SDI0	Input	Tri-stated	Serial Data Input 0 - While in the high impedance state,
			the internal input buffer is disconnected from the pin and
			no external pull-up is necessary.
SDI1	Input	Tri-stated	Serial Data Input 1 - While in the high impedance state,
			the internal input buffer is disconnected from the pin and
			no external pull-up is necessary.
SCKR	Input or	Tri-stated	Receive Serial Clock - SCKR is an output if the receiver
	Output		section is programmed as a master, and a Schmitt-
			trigger input if programmed as a slave.
WSR	Input or	Tri-stated	Word Select Receive (WSR) - WSR is an output if the
	Output		receiver section is configured as a master, and a
	7,		Schmitt-trigger input if configured as a slave.

② SAI Transmitter Section

Table 1-10 Serial Audio Interface (SAI) Transmitter signals

Signal Name	Signal Type	State during Reset	Signal Description
SDO0	Output	Driven	Serial Data Output 0 (SDO0) - SDO0 is the serial output
		High	for transmitter 0.
SD01	Output	Driven	Serial Data Output 1 (SDO1) - SDO1 is the serial output
		High	for transmitter 1.
SDO2	Output	Driven	Serial Data Output 2 (SDO2) - SDO2 is the serial output
		High	for transmitter 2.
SCKT	Input or	Tri-stated	Serial Clock Transmit (SCKT) - This signal provides the
	Output		clock for the SAI.
WST	Input or	Tri-stated	Word Select Transmit (WST) - WST is an output if the
	Output		transmit section is programmed as a master, and a
			Schmitt-trigger input if it is programmed as a slave.

☞ GENERAL PURPOSE I/O

Table 1-11 General Purpose I/O (GPIO) Signals

Signal Name	Signal Type	State during Reset	Signal Description
GPIO0-	Standard	Disconnected	GPIO lines can be used for control and handshake
GPIO3	Output,		functions between the DSP and external circuitry.
	Open-drain		
	Output, or		
	Input		

☞ ON-CHIP EMULATION (OnCETM) PORT Table 1-12 On-Chip Emulation Port Signals

Signal Name	Signal Type	State during Reset	Signal Description
DSI	Input	Output,	Debug Serial Input (DSI) - The DSI signal is the
		Driven Low	signal through which serial data or commands
			are provided to the OnCE port controller.
080	Output		Operating Status 0 (OS0) - When the DSP is not
			in the Debug mode, the OS0 signal provides
			information about the DSP status if it is an output
		0	and used in conjunction with the OS1 signal.
DSCK	Input	Output,	Debug Serial Clock (DSCK) - The DSCK/OS1
		Driven Low	signal, when an input, is the signal through which
			the serial clock is supplied to the OnCE port.
OS1	Output		Operating Status 1 (OS1) - If the OS1 signal is an
			output and used in conjunction with the OS0
			signal, it provides information about the DSP
			status when the DSP is not in the Debug mode.
DSO	Output	Driven High	Debug Serial Output (DSO) - The DSO line
			provides the data contained in one of the OnCE
			port controller registers as specified by the last
,			command received from the command controller.
DR	Input	Input	Debug Request (DR) - The debug request input
			provides a means of entering the Debug mode of
			operation.

NOTES

ALIGNMENT PROCEDURES

TUNER

1. Equipment Required

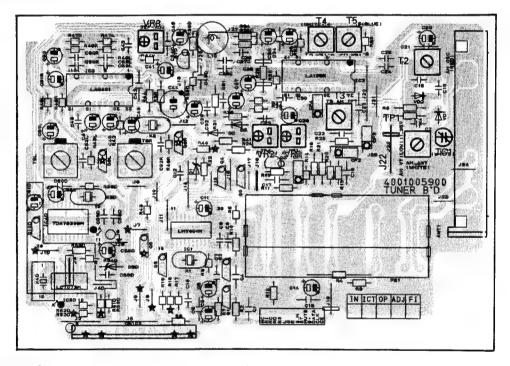
- AM Standard Signal Generator (AM SSG)
- Oscilloscope
- AC Voltmeter
- FM Standard Signal Generator (FM SSG)
- Stereo Modulator

- Audio Generator
- Distortion Meter
- DC Voltmeter
- Frequency Counter

Note: Disconnect external FM antenna prior to alignment.

2. Alignment

2-1. Alignment and Test Point



2-2. AM Alignment

- Output of signal generator should not be greater than necessary to obtain an optimum output reading.
- Signal generator modulation : 30 %
- RF signal frequency: 400 Hz
- · Switch: Press the BAND button to AM

Step	Subject	Signal Generator Frequency	Set Frequency Setting	Equipment Connection	Adjustment Point	Adjustfor					
1	Tuning Voltage	520kHz (522kHz)	520kHz 1) (522kHz)	DC Voltmeter to J22 (TP1)	T2 AM OSC(R)	DC 1.5V±0.2 V					
2	USABLE sensitivity	600kHz (594kHz)	600kHz 1) (594kHz)	AC voltmeter and oscilloscope to	T 1 MW ANT(W)	Maximize audio output					
		1400kHz (1404kHz)	1400kHz 2) (1404kHz)	speaker terminal of L or R channel	TC1						
		* Feed signal should be fed to loop antenna through the test loop antenna 60 cm distant from the appliance. * Repeat the step 1) and 2) until no further improvement occurs.									

3	IF	1000kHz (999kHz)	1000kHz (999kHz)	Ac voltmeter and oscilloscope to speaker terminal of L or R channel	T3 AM IFT	Maximize audio output		
4	Ťuned Level	1000kHz(999kHz) 800 ¼/m	1000kHz (999kHz)		VR1	"Tuned" flag in the FL display light on		

3-3. FM Alignment

- Output of signal generator should not be greater than necessary to obtain an optimum output reading.
- Signal generator deviation: USA/Canada/Korea: 75kHz, Europe: 40kHz
- RF signal frequency: 1 kHz
- Switch: Press the BAND button to FM and the FM MODE button to MONO

Step	Subject	Signal Generator Frequency	Set Frequency Setting	Equipment Connection	Adjustment Point	Adjust for
1	Tuning Band Width	98.1MHz (98MHz)	98.1MHz (98MHz)	DC Voltmeter to R26(PCB1)	T4	Zero reading on DC Voltmeter
2	THD	98.1MHz (98MHz)	98.1MHz (98MHz)	Distortion meter to TAPE OUT jack of L or R channel	T5	Minimize distortion
3	Tuned Level	98.1MHz(98MHz) SSG output level: 10 #/m	98.1MHz (98MHz)		VR2	"Tuned" flag in the FL display light on

3-4. MPX Alignment

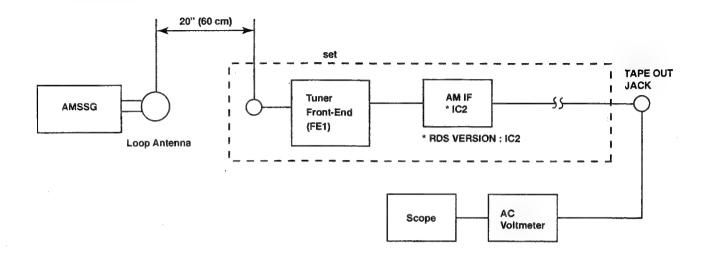
- Signal generator frequency: 98 MHz
- Signal generator deviation : USA : 75kHz, Europe : 40kHz
- RF signal frequency: 1 kHz
- Signal generator output level: 1000 pJ/m
- Connect signal generator to FM antenna terminal through FM dummy antenna (75Ω)
- Switch: Press the BAND button to FM and the FM MODE button to STEREO

Step	Subject	19kHz Modulation Level	Set Generator Setting	Equipment Connection	Adjustment Point	Adjust for
1	Separation R → L	8% Modulation	Pilot on	AC voltmeter to speaker terminal of R channel	VR3	Set AC voltmeter to 0 dB
				AC voltmeter to speaker terminal of L channel		AC voltmeter reading should be at least 40 dB below
2	Separation L → R	8% Modulation	Pilot on	AC voltmeter to speaker terminal of L channel	VR3	Set AC voltmeter to 0 dB
				AC voltmeter to speaker terminal of R channel		AC voltmeter reading should be at least 40 dB below

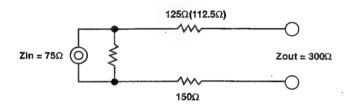
If you could not obtain -40 dB readings in steps 1 and 2, readjust VR3 until you obtain -40 dB readings. Nominal is -45 dB. (Europe: Nominal -42 dB, Limit -37 dB)

4. Equipment Connection

4-1. AM Alignment Connection

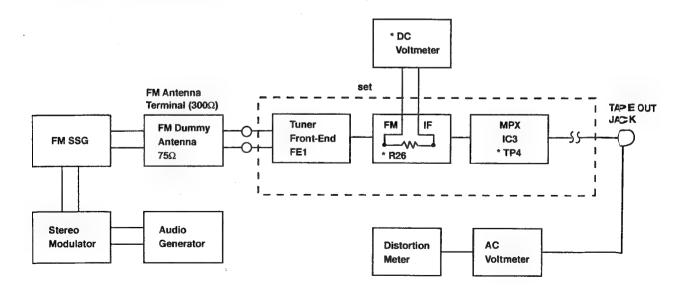


4-2. FM Dummy Antenna



FM Dummy Antenna to 300Ω Antenna terminal of system.

4-3. FM RF/IF and MPX Alignment Connection



TROUBLESHOOTING

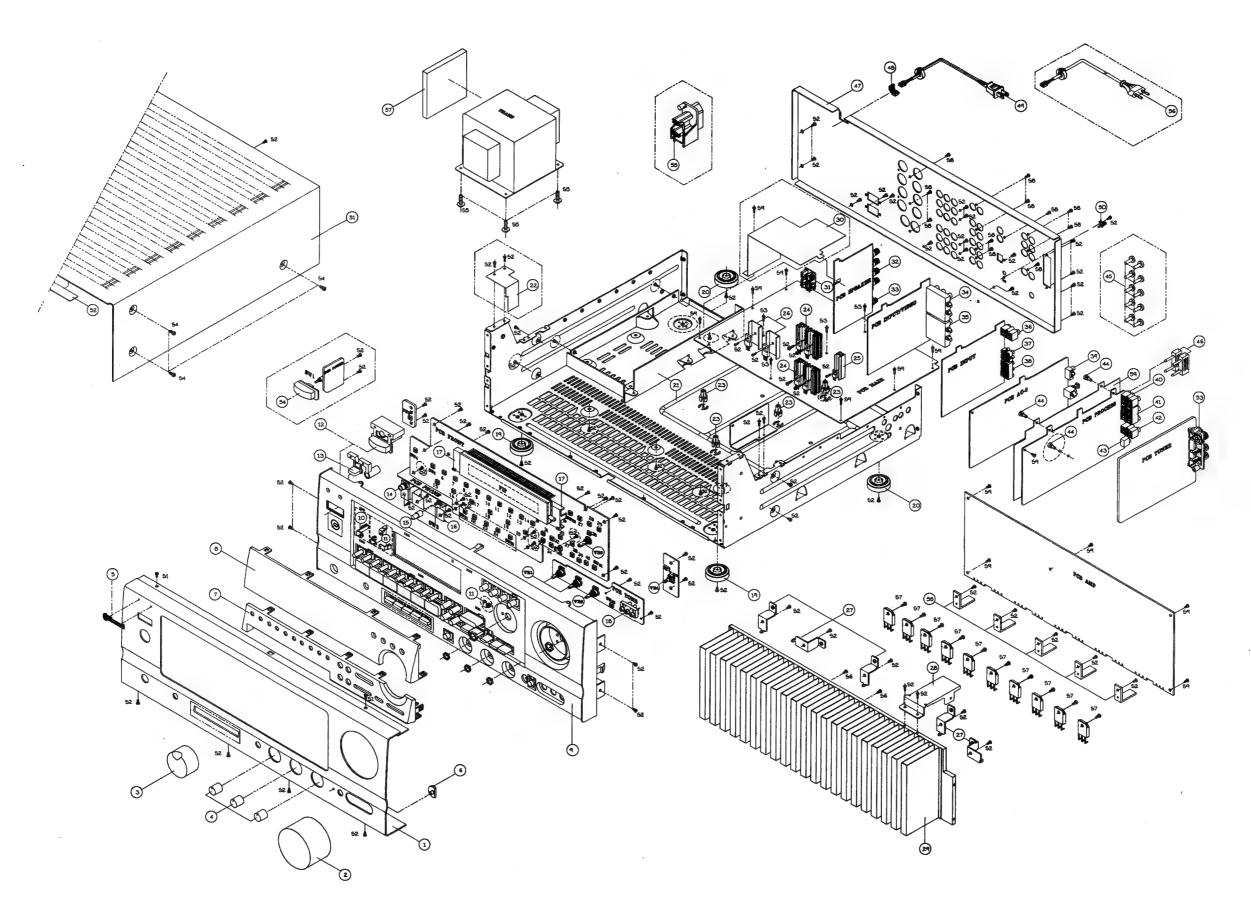
Symptom	Cause and Remedy
Receiver inoperative.	A) Faulty AC power cord.
(FL indicator does not light.)	Replace.
	B) Defective the power switch.
	Replace.
	C) Broken wire in the power transformer.
	Replace.
·	D) Blown fuse.
	Replace the fuse.
Fuse blows when power is turned on.	A) Defective power transformer.
	Replace.
	B) Short on the primary or secondary of the transformer circuitry.
	Repair the short.
	C) Damaged rectifier D105-D112 or damaged transistor
·	Q215L/R/C/SL, Q216L/R/C/SL.
İ	D) Short circuit in the amplifier circuit.
	Repair the shorted component(s) in the amplifier circuit.
Power indicator lights but no sound from	A) Defective in transistor Q215L/R, Q216L/R on the AMP302 Board.
both channels.	B) Pulled out of correct speaker switch.
One channel does not work when volume	A) Defective in transistor Q215L/R or Q216L/R on the AMP302 Board.
is at maximum with a test signal applied to	Replace the defect.
the center terminal of volume control of the	B) Break in copper foil of printed circuit board.
dead channels.	Repair the defect.
	C) Short in speaker output terminal.
	Repair or replace.
Speaker works normally but headphones	A) Headphone plug does not match with jack.
inoperative.	Replace the jack.
'	B) Defective resistor R701L/R.
ļ	Replace.
FM inoperative	A) Defective front-end (FE).
·	Replace.
	B) Defective FM switch.
	Replace the switch.
	C) Defective transistor Q3 and ICS (IC2,IC3).
†	Replace the defective transistor or IC(s).
	D) Defective coil T4, T5.
	Replace the coil(s).
	E) Defective lead-in.
	Repair or replace the lead-in.
	F) Ceramic filters CF1, CF3 defective.
	Replace the defective ceramic filter(s).
Poor multiplex separation.	A) Improper adjustment.
	Readjust VR3.
	Readjust VR3. B) IC3 defective.
	B) IC3 defective.
	B) IC3 defective. Replace.
	B) IC3 defective. Replace. C) Variable resistor VR3 defective.
	B) IC3 defective. Replace. C) Variable resistor VR3 defective. Replace the variable resistor.
FM volume is insufficient.	B) IC3 defective. Replace. C) Variable resistor VR3 defective. Replace the variable resistor. A) If volume from both L and R channels is not loud enough:
	B) IC3 defective. Replace. C) Variable resistor VR3 defective. Replace the variable resistor.

Symptom	Cause and Remedy
STEREO indicator does not light.	A) Defective indicator in FL.
	Replace.
	B) Improper adjustment of VR2 of tuner board.
	Make readjustment.
	C) Defective IC2.
	Replace the defective component.
FM Mono has no effect.	A) Defective FM MODE switch.
	Replace.
AM inoperative.	A) Damaged IC2 of tuner Board.
	Replace.
	B) Defective T1, T2, T3 or CF4 of Tuner Board.
	Replace the defective component(s).
•	D) Defective varicap diodes VD1 or VD2.
	Replace varicap diods(s).
	E) Damaged AM loop antenna.
	Repair or replace.
Bass control has no effect.	A) Variable resistor BASS defective.
	Replace.
Treble control has no effect.	A) Variable resistor TREBLE defective.
Auto tune inoperative. (UP/DOWN)	A) Poor contact in Up/Down key.
•	Repair or replace.
	B) Defective IC301.
	Replace.
	C) Defective tuner Circuit components.
	Replace.
	D) In case of FM only, improper adjustment of FM front-end.
	Readjust.
Manual tune inoperative. (UP/DOWN)	A) Poor contact in Up/Down key.
(AM or FM)	B) Defective IC301.
	Replace.
Memory setting inoperative.	A) Poor contact in memory keys 1-10.
	Replace the defective component.
	B) Defective IC301.
_	Replace the defective component.
FL inoperative.	A) FL defective.
	Replace.
•	B) Defective IC301.
	Replace.
	C) Defective X-TAL 301.
	Replace.
Noisy volume control.	A) Defective volume.
	Replace.
Remote Control Unit inoperative.	A) Weak battery.
	Replace.
	B) Defective.
	Replace.
	C) Defective IC301 (FRONT Board)
	Replace.

MECHANICAL PARTS LIST

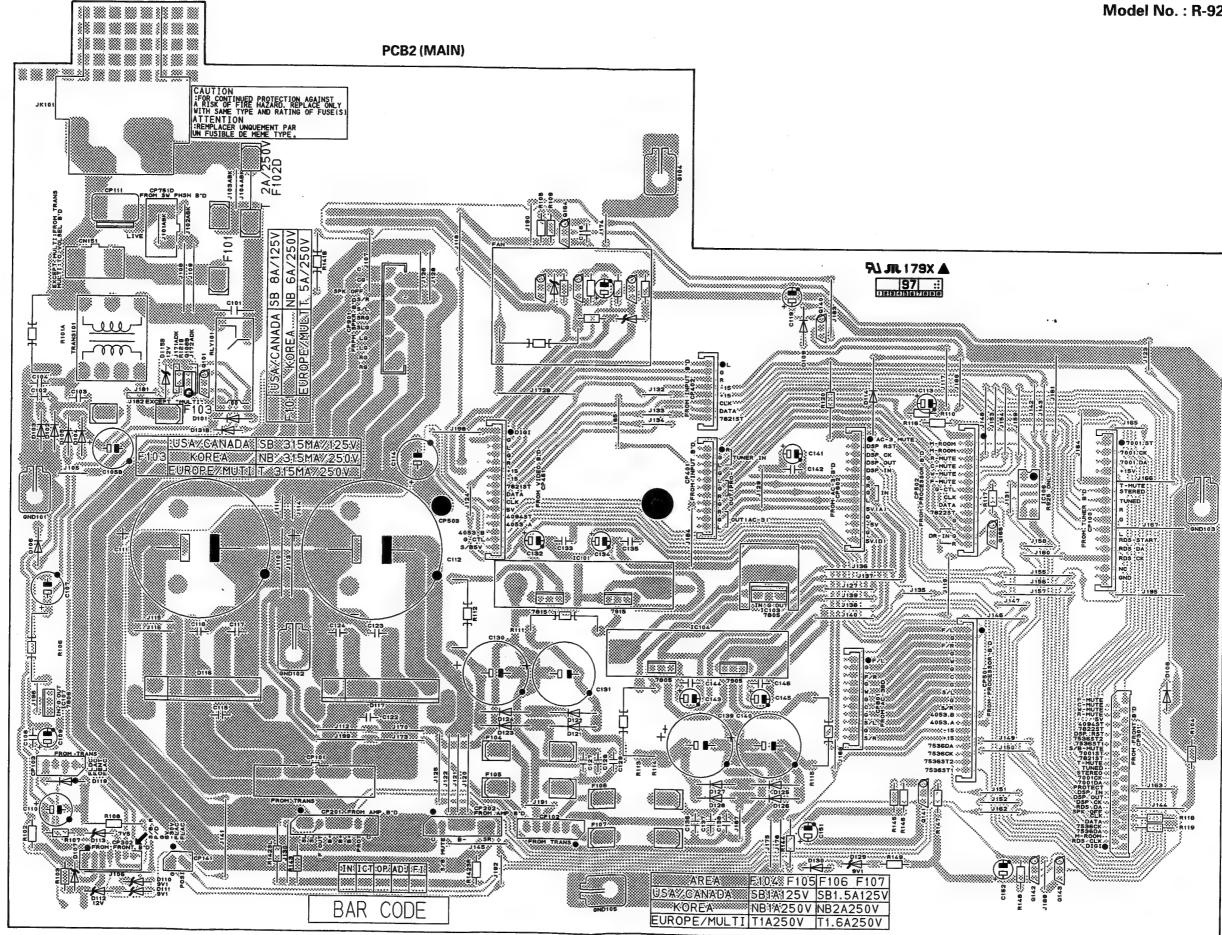
^{*}Parts without Parts No are not supplied.
*Parts with blank vertion are available in common.

	Desciption Packaging Materrials	Part No.	- 3		Ref.No.	Desciption Jack RCA(2P)	Part No. G601200440020	1	
	-	6017040990191	1	К		·		-	
	Box Carton				37	Jack RCA(4P)	G60240045003A	1	
	Box Carton	6017040990190	1	A,D,RDS	38	Jack RCA(6P)	G603600920030	1	
	Cushion Poly	6230042794010	1		39	Jack RCA(2P)	G601200099020	1	
	Film Soft PE	6320040052010	1		40	Jack RCA(2P)	G601200440020	1	
	Poly Bag	6330040092010	1		41	Jack RCA(4P)	G602400450050	1	
					42	Jack RCA(2P)	G601200440020	1	
	Accessories				43	Jack Multi Room	G402042070000	1	Α
	Antenna Wire (FM)	E605010010000	1		44	Snap rivet	1560040036010	3	
	Antenna AM Loop Stand Strip Wire	E601010000000	1		45	Bushing Terminal	2410040270010	10	D.RD
	Ass'y Commander	8300040640020		K	46	Jumper Plug	L063040750000	2	
	Ass'y Commander	8300040640010	1	A	47	Chassis Back	3207053396030	1	κ
	Ass'v Commander	8300040520040	1	D,RDS	(47)	Chassis Back	3207053396010	1	A
		G670001R50010	2	D.RDS	(47)	Chassis Back	3207053396020	1	D
	Battery 1.5 V AA(R6M)	_	1	K		Chassis Back		1	RDS
	Manual Instruction	5707046780010			(47)		3207053396040		KDS
	Manual Instruction	5707046690010	1	Α	48	Stopper Cord	4380040162010	1	
	Manual Instruction	5707046700010	1	D,RDS	49	AC Power Cord	L061040050010	1	Α
	Warranty Card	5727041570010	1	K	50	Terminal GND	3790000090000	1	
	Warranty Card	5727040060010	1	Α	51	Cover Top	3000045396010	1	
	Warranty Card	5727041620020	1	D,RD\$	52	Sponge	4050043525010	1	
	•				53	ANT Terminal	G590040470000	1	A,K
	Cabinet & Chassis				(53)	ANT Terminal	G59004046000A	1	D.RD
	Panel Front	3067046398040	1	K	54	Button Power	509005399101A	1	D,RD
41		3067046248010	1	A	55	AC Outlet	G435040110000	1	D,RD
1)	Panel Front			D		AC Outlet		1	
1)	Panel Front	3067046248030	1		(55)		G435000160010		K
1)	Panel Front	3067046248020	1	RDS	56	AC Power Cord	L061040210010	1	K
	Knob Main	5087041501010	1		(56)	AC Power Cord	L061040090010	1	D,RD
	Knob Encoder	5087040778010	1		(56)	AC Power Cord	L061000390060	1	RICH
	Knob Rotary	5097050641010	3		57	Rubber Sponge	4050042695010	1	
	Badge, Sherwood Newcastle	5637040591010	1		58	Bracket Heat Sink	4010057166010	5	
	LED Guide	4350041551010	1		59	Shield Plate	3070046716010	1	
	Decoration Cap	5127040931050	1	K					
7)	Decoration Cap	5127040931030	1	Α		Hardware Kit			
7)	Decoration Cap	5127040931040	1	D,RDS	S1	Screw, #2FTC 3×8B	B010530083F10	2	
• ,	Window FL	5077040063030	1	A,K	S2	Screw, #B BTT 3×8B	B020030083B10		
٥١	· · · · · · · · · · · · · · · · · · ·	5077040063040	1	D,RDS	S3	Screw, #B WPTT 3×18Y	B020030181X10	3	
8)	Window FL			K	S4	· ·		_	
	Body Front	3417040721050	1			Screw, BSAM 4×8B	B020940083B10	6	
9)	Body Front	3417040721030	1	A	S5	Screw, WSAM 4×8B	B020940083W10	4	
(9)	Body Front	3417040721040	1	D	S6	Screw, GUIDE 3 × 16Y	1507041456010	2	
9)	Body Front	3417040731020	1	RDS	S7	Screw, HEAT SINK	1507041146010	10	
	Indicator Stanby	5160040643010	1		S8	Screw, GND	1507040996010	11	
	Indicator	5070044421010	4		S9	Screw, #B WPTT 3×6Y	B020030061W10	12	
	Button Power	5090059071010	1						
	Button Stanby	5090059231010	1			Miscellaneous			
	Jack Phone(G)	G402040161330	1		SW1	Switch Power	G000041610000	1	K,D,R
		5090066821010	1		SW2	Switch Push	G000041070000	1	. 4,00,11
	Button Push								Α
	Bracket Jack/SW	4010043616010	1		SW3	Switch Tact	G180040500010	1	Α
	Holder FL	4320040841010	2		SW4-20	Switch Tact	G180040500010	17	
	Jack RCA	G606040300000	1		SW21-25	Switch Tact	G180040500010	5	RDS
	Foot AL	4007041021010	2	A,K	SW26-42	Switch Tact	G180040500010	17	
19)	Foot AL	4007040201010	2	D,RDS	VR1	VR Treble/Bass	C455121402300	2	
	Foot PL	4000040201010	2		VR2	VR Balance	C455111402000	1	
	Chassis Ass'y	3208056416200	1		VR3	VR Encoder	C450042030010	1	
	Cover Power	1240044012010	1	DP,RDSP	VR4	VR Main	C49004106001A	1	
	Knob Spacer	4300040561010	4						
	Heat Sink Reg TR	2120043538020	2						
	<u> </u>								
	Heat Sink Reg TR	2120044358010	1						
	Heat Sink Reg TR	2120044808010	2						
	Bracket H/Sink	4010056906010	5						
	Bracket H/Sink	4010056896010	1						
	H/Sink Power	2120044988010	1						
	Cover Fuse	1240044022010	1	DP,RDSP					
	AC Outlet	G435040070000	1	Α					
	Terminal Speaker(8P)	G614081036000	1						
	Terminal Speaker(2P)	G611040310000	1						
		GO I IUTOJ IUUUU	8						
	Jack RCA(9P)	G607901220040	1						

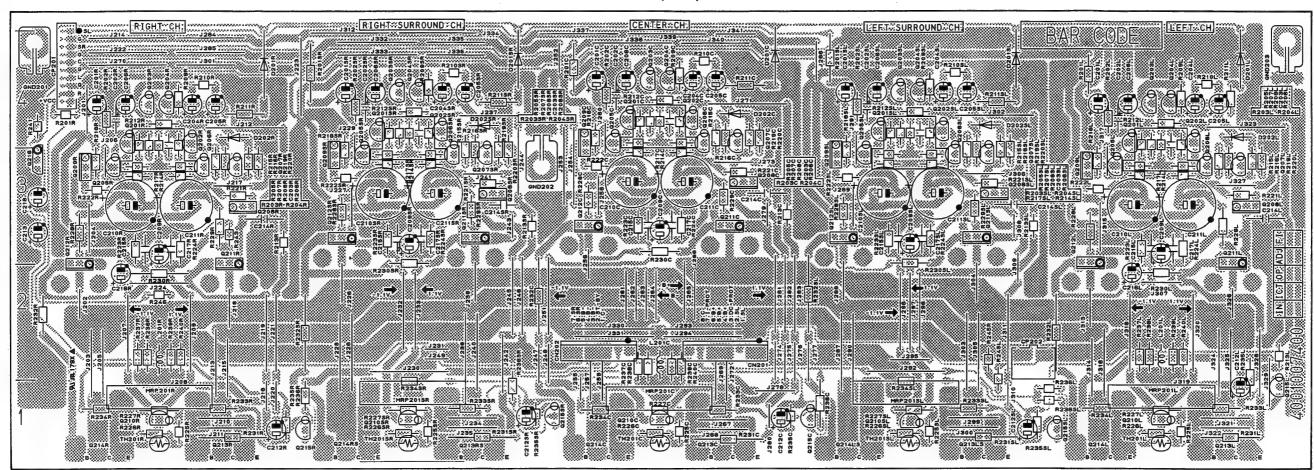


PRINTED CIRCUIT BOARDS

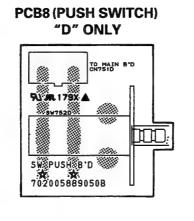
Model No.: R-925R/R-925RDS

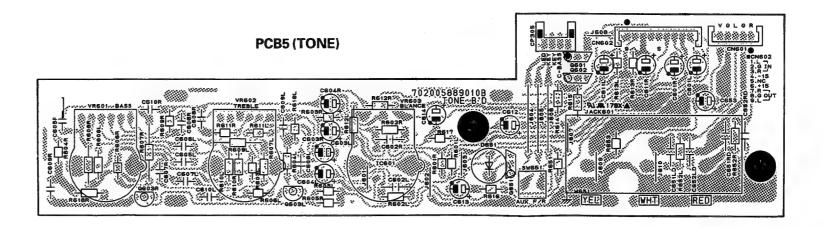


PCB3 (AMP)



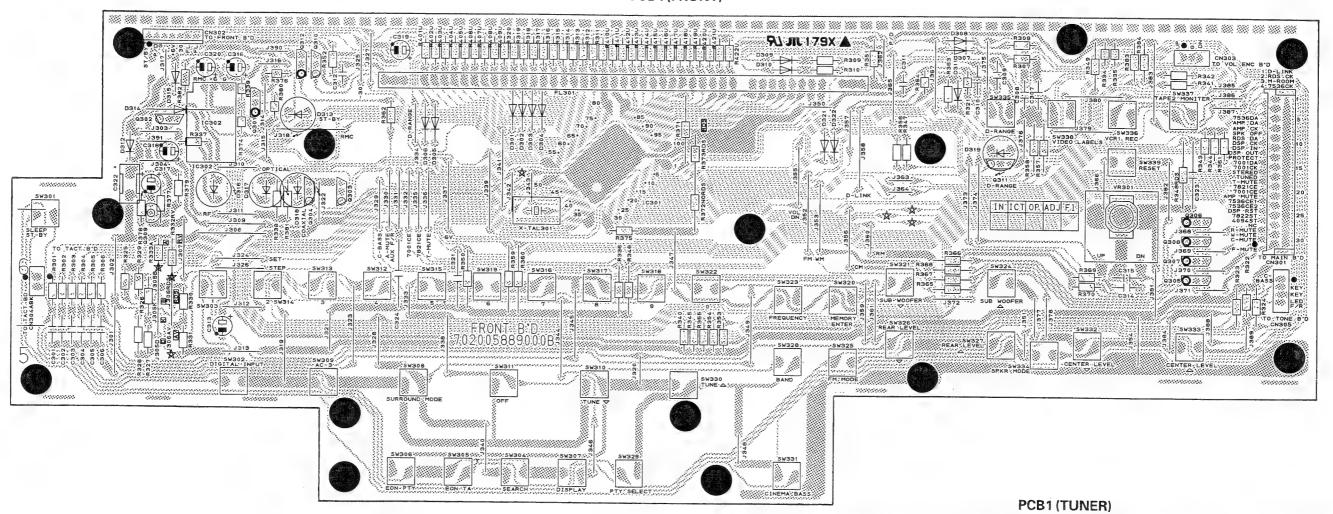
PCB6 (HP/SPK SWITCH) RT01R R



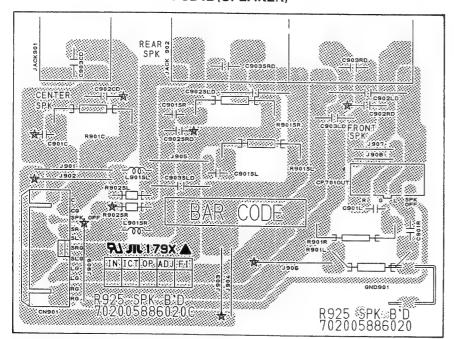


PCB4 (FRONT)

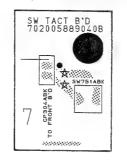
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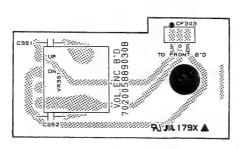
PCB12 (SPEAKER)

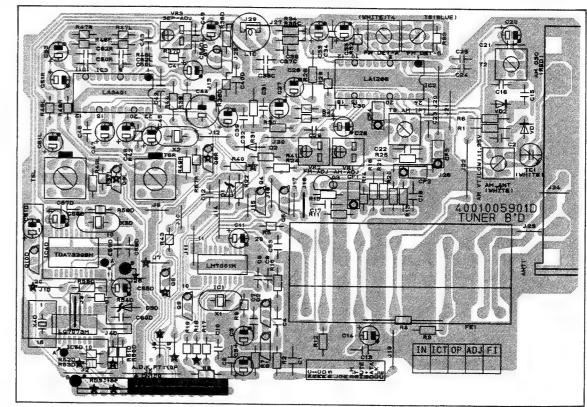


PCB7 (TACT SWITCH)

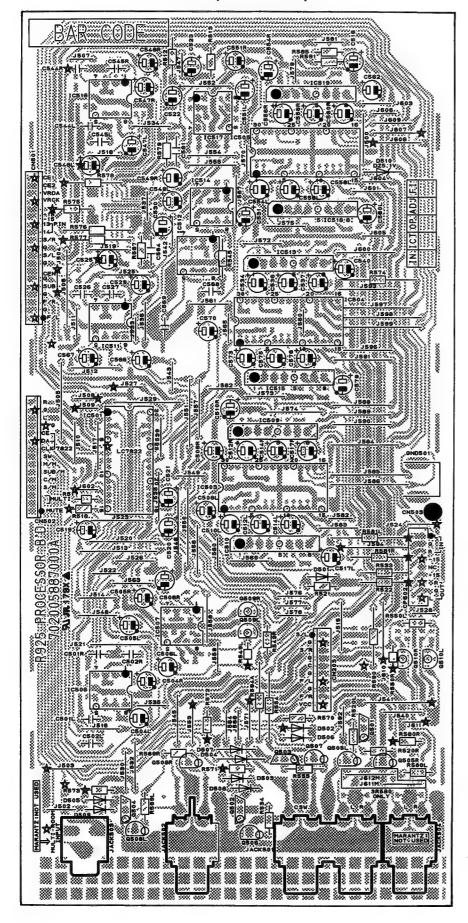


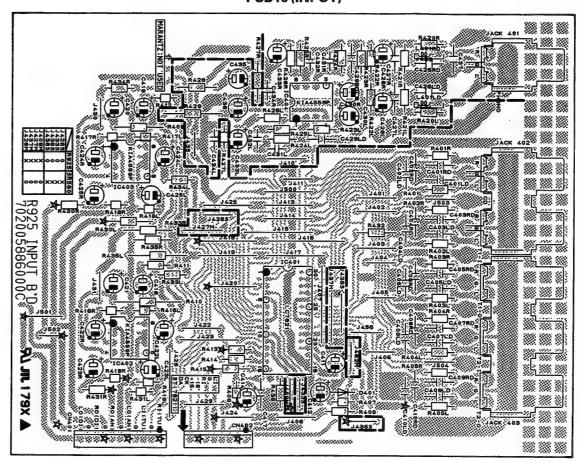
PCB9 (ENCODER)



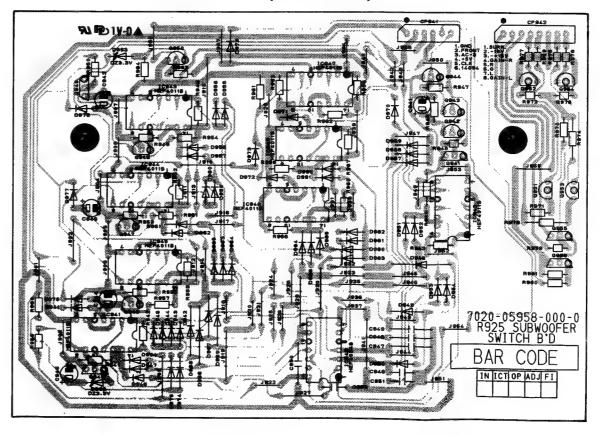


PCB13 (PROCESSOR)



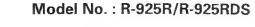


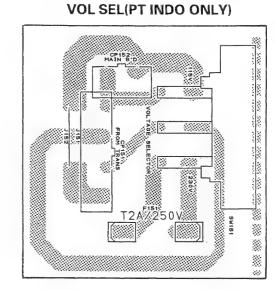
PCB15 (SUB WOOFER)



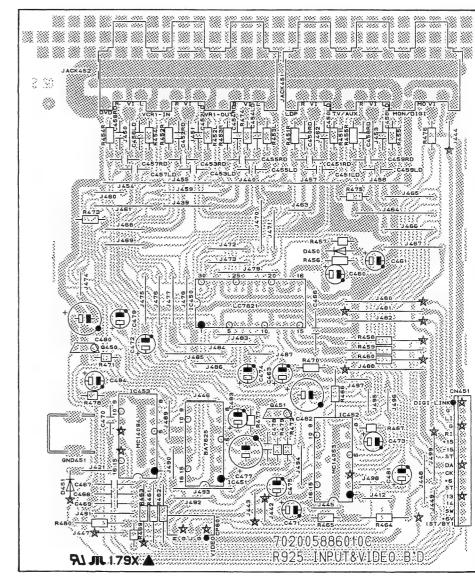
PCB14 (AC-3)

-TOP VIEW-





PCB11 (INPUT & VIDEO)



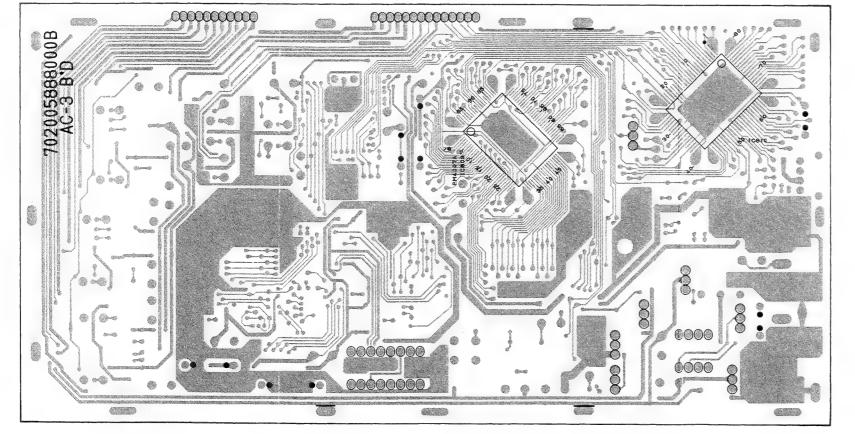
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PCB14 (AC-3)

-BOTTOM VIEW-



41

ELECTRICAL PARTS LIST

*Parts without Parts No are not supplied.

*Parts with blank version are available in common.

Ref.No.

Description

	version are available in comm	on.												
Ref.No.	Description			Q'ty Version Ref.N				Part No. Q'ty Version	Ref.No.	Description			Part No	. Q'ty Version
PCB1	ASSEMBLY P.C.BO		7028040887800	K R5	Metal Film			J C06004716P520 1	C20	Elect GE	10 uF		M D04010008510) 1
PCB1	ASSEMBLY P.C.BO	ARD TUNER	7028040889200	A R6	Carbon Film			J C00001046P520 1	C21/22	Ceramic H/K Axial	0.022 uF	25 V	D00522357453	
	Capacitors			R7 R8	Carbon Film			J C00001036P520 1	C23	Ceramic H/K Axial	10000 pF	16 V	D00510377353	
C1	Ceramic H/K Axial	0.022 uF 25	5 V D005223574530	1 R9	Metal Film Metal Film			J C06002716P520 1	C24/25	Ceramic H/K Disc	0.022 uF			
C2	Ceramic H/K Disc	0.047 uF 50	0 V Z D004473097060	1 R10	Metal Film			J C06005616P520 1 J C06001026P520 1	C26 C27	Elect GE Elect GE	4.7 uF		M D0404R708710	
C3	Elect GE	3.3 uF 50	0 V M D0403R3087100	1 R11	Metal Film			J C06001026F520 1	C28	Elect GE	3.3 uF 4,7 uF		M D0403R3087100 M D0404R7087100	
C4	Ceramic H/K Axial		6 V D005103773530	1 R12	Metal Film			J C06005616P520 1	C29	Ceramic H/K Disc	0.022 uF		Z D004223097060	
C5 .	Elect GE		6 V M D040470083100	1 R13	Metal Film			J C06003326P520 1	C30	Film Polyester	0.022 uF	100V	J D02022306C066	
C6	Ceramic H/K Axial		5 V D005223574530	1 R14	Metal Film			J C06005616P520 1	C31	Film Polyester	0.0033 uF			
C7 C8/9	Ceramic H/K Axial		6 V D005103773530	113	Metal Film			J C06004716P520 1	C32	Film Polyester	0.039 uF	100V	J D02039306C060	
C10	Ceramic Disc Ceramic H/K Disc		0 V J D000180167070 0 V J D004101067060	4	Metal Film	100 ohm	1/5 W	J C06001016P520 1	C33	Elect GE	1 uF	50 V	M D040010087100	
C11	Elect GE	•	6 V M D040470083100	R17-19		1 kohm	1/5 W ,	J C06001026P520 3	C34	Ceramic H/K Axial	0.022 uF	25 V	D005223574530	1
C12	Ceramic H/K Disc		0 V Z D004223097060	R20	Metal Film			J C06003316P520 1	C35	Elect GE	100 uF		M D040101083100	
C13	Ceramic H/K Axial		5 V D005223574530	R21 R22	Metal Film			J C06002716P520 1	C36	Ceramic H/K Disc	330 pF		J D004331067060	
C14	Elect GE	100 uF 16	6 V M D040101083100	1 R24	Metal Film Metal Film		1/5 W .	J C06004716P520 1	C37C	Ceramic Disc	82 pF	50 V	J D000820067060	
C15	Film Stylor		0 V J D022471067050	1 R25	Carbon Film			J C06004726P520 1 J C00006836P520 1	C38C C39	Ceramic H/K Disc Elect GE	100 pF 10 uF		J D004101067060	
C16	Ceramic Disc		OV J D000150167070	1 R26	Carbon Film		1/5 W .		C40D	Ceramic H/K Axial	0.022 uF	35 V 25 V	M D040100085100 D005223574530	
C17/18	Ceramic H/K Axial		5 V D005223574530	2 R27	Carbon Film			C00001036P520 1	C41	Elect GE	4.7 uF		M D0404R7087100	
C20	Elect GE		5 V M D040100085100	1 R28	Carbon Film			J C00002236P520 1	C42	Ceramic H/K Axial	0.047 uF	50 V	D005473097530	
C21/22	Ceramic H/K Axial		5 V D005223574530	2 R29	Metal Film	22 ohm	1/5 W .	J C06002206P520 1	C43	Ceramic H/K Disc	680 pF		J D004681067060	
C23 C24/25	Ceramic H/K Axial Ceramic H/K Disc		6 V D005103773530 0 V Z D004223097060	1 R30	Metal Film			J C06004726P520 1	C44	Elect GE	100 uF	16 V	M D040101083100	1
C26	Elect GE		OV M D0404R7087100 .	1/01	Carbon Film			C00001036P520 1	C45	Elect GE	1 uF	50 V	M D040010087100	1
C27	Elect GE		V M D0403R3087100 .	1/02	Carbon Film			C00005626P520 1	C46	Elect GE	0.22 uF		M D040R22087100	
C28	Elect GE		V M D0404R7087100	4	Metal Film			C06003326P520 1	C47	Elect GE	1 uF		M D040010087100	
C29	Ceramic H/K Disc		V Z D004223097060	1 R34 1 R39	Metal Film Metal Film			C06001016P520 1	C48	Ceramic H/K Disc	0.022 uF		Z D004223097060	
C30	Film Polyester		00V J D02022306C060	1 R40	Carbon Film			C06001016P520 1 C00004736P520 1	C49 C50L	Elect GE Ceramic H/K Disc	10 uF		M D040100085100	
C31			00V J D02033206C060	1 R41	Carbon Film			C00004736P320 1	C50R	Ceramic H/K Disc	220 pF 220 pF		J D004221067060 J D004221067060	
C32	Film Polyester		00V J D02039306C060	1 R42	Metal Film			C06003326P520 1	C51L/R	Elect GE	10 uF		J D004221067060 M D040100085100	
C33	Elect GE		OV M D040010087100	1 R43	Carbon Film			C00002236P520 1	C53	Elect GE	10 uF		M D040100085100	
C34 C35	Ceramic H/K Axial Elect GE		5 V D005223574530 5 V M D040101083100	1 R44	Carbon Film	47 kohm	1/5 W	C00004736P520 1	C54D	Ceramic H/K Axial	270 pF	50 V	D005271077530	
C36	Ceramic H/K Disc			4				C00001246P520 2	C55D	Elect GE	47 uF	16 V	M D040470083100	
C39	Elect GE		V M D040100085100	R4/L/R				C00001846P520 2	C56D	Elect GE	10 uF		M D040100085100	
C41	Elect GE		V M D0404R7087100	4				C06002726P520 2	C57D	Ceramic H/K Axial	0.1 uF	50 V	D005104097530	
C42	Ceramic H/K Axial		V D005473097530	1 R49L/R				C06003326P520 2	C58D/59D	Ceramic H/K Disc	27 pF		J D004270067060	
C43	Ceramic H/K Disc	680 pF 50	V J D004681067060	! R57L/R	Metal Film	1.5 kohm <i>'</i>	1/5 VV J	C06001526P520 2	C60D	Ceramic H/K Disc	0.1 uF		Z D004104097060	
C44	Elect GE	100 uF 16	SV M D040101083100	1	Caile				C62L/R	Ceramic Disc	10 pF	50 V	J D000100067060	2
C45	Elect GE		V M D040010087100	1 1 T1	Coils AM-Antenna			D204504200000 4		Ceramic Filters				
C46	Elect GE		V M D040R22087100	1 T2	AM-OSC			D304564300000 1 D940111027000 1	CF1	10M7S3GH			E400407000450	
C47	Elect GE		V M D040010087100	1 T3	AM-IFT P-7SB			D950010050000 1	CF3	10M7S3GH			E430107000150	
C48 C49	Ceramic H/K Disc		OV Z D004223097060 OV M D040100085100	T4	FM-DET-A			D970010040000 1	CF4	CFM2-450BL			E430107000150 E431450000120	
C50L/R	Elect GE Ceramic H/K Disc		5 V M D040100085100 0 V J D004561067060	, T5	FM-DET-B	•		D970010060000 1		0.1112 10032			L431430000120	'
C51L/R	Elect GE		V M D040100085100		MPX(19/38kHz) BI	.K		E401500100000 2		Diodes				
C53	Elect GE		V M D040100085100	1					D1	UZ 5.1 BSB, Zener			K06005R114520	1
C62L/R	Ceramic Disc		V J D000680067060	2	Semi Fixed Vare	able Resistors			D2	1N4148M, Switching			K000414801520	
		•		VR1	5K(B)-H			C541502115000 1	D3D	UZ 5.1 BSB, Zener			K06005R114520	
	Ceramic Filters			VR2	50K(B)-H			C541503115000 1	VD1/2	SVC321SPA-C			K080032100520	
CF1	SFE10.7MA8-A-TF21		E430107000140	1 VR3	200K(B)-H			C541204115000 1						
CF3	SFE10.7MA8-A-TF21		E430107000140							Integrated Circuits				
CF4	CFM2-450BL		E431450000120		Miscellaneous				IC1	LM7001M			J124700100010	1
				CN100	PLUG 10P, 35238-			L12252419100A 1	IC2	LA1266G			J124126600010	
	Diodes			FE1 TC1	Tuner FM, FTA4-5			E900455600100 1	IC3	LA3401			J124340100010	
D1	UZ 5.1 BSB, Zener		K06005R114520	1 7/4	Trimmer Ceramic, 7.2 MHz	to pr		D110100901100 1 E800720000080 1	IC4D	TDA7330BD			J020733000010	1
D2	1N4148M, Switching		K000414801520	l vo	Resonator, CSB45	6F		E830456000050 1		Caila				
VD1/VD2	SVC321SPA-C		K080032100520	2	110001101111 002-10	-,		2555455555555	140	Coils				
	Internated Circuits			PCB1	ASSEMBLY P.C.	BOARD TUNER		7028040890600 D	L1C T1	Inductor, 20.8 MH AM-Antenna			D330208001120	
104	Integrated Circuits		1424700400040	DCD4	ASSEMBLY P.C.	BOARD TUNER		7028040892000 RDS	T2	AM-OSC			D304564300000	
IC1 IC2	LM7001M LA1266G		J124700100010 J124126600010		Capacitors				T3	AM-IFT P-7SB			D940111027000 D950010050000	
IC3	LA3401		J124340100010		Ceramic H/K Axial	0.022 uF	25 V	D005223574530 1	T4	FM-DET-A			D970010040000	
103	EA0401		3124340100010	C2	Ceramic H/K Disc			D003223374330 1 D004473097060 1	T5	FM-DET-B			D970010040000	
	Transistors			C3	Elect GE			D0403R3087100 1	T6L/R	MPX(19/38kHz) BLK			E401500100000	
Q1/Q2	2SC1740S, NPN		J5021740S0010	2 C4	Ceramic H/K Axial		16 V	D005103773530 1						
Q3	KTC1923Y/KTC3194Y,	NPN	J5023194Y0050	1 C5	Elect GE	47 uF		D040470083100 1		Transistors				
Q4-Q6	KRA107M/DTA114YS,		J601107M00050	3 C6	Ceramic H/K Axial		25 V	D005223574530 1	Q1/2	2SC1740S, NPN			J5021740S0010	2
Q8L/R	DTC323TS, NPN		J602323TS0050	2 C7	Ceramic H/K Axial		16 V	D005103773530 1	Q3	KTC1923Y/KTC3194Y	', NPN		J5023194Y0050	
Q9	KRA107M/DTA114YS,	PNP	J601107M00050	1 C8/9	Ceramic Disc			D000180167070 2	Q4-6	KRA107M/DTA114YS	, PNP		J601107M00050	3
				C10	Ceramic H/K Disc			D004101067060 1	Q7D	2SC1740S, NPN			J5021740S0010	
	Resistors			C11 C12	Elect GE Ceramic H/K Disc			D040470083100 1 D004223097060 1	Q8L/R	DTC323TS, NPN	DND		J602323TS0050	
R1	Carbon Film	100 kohm 1/5	W J C00001046P520	1 C13	Ceramic H/K Axial		25 V	D004223097060 1 D005223574530 1	Q9	KRA107M/DTA114YS	, FNP		J601107M00050	1
R2	Carbon Film		W J C00005626P520	7 C14	Elect GE			D040101083100 1		Resistors				
R3	Carbon Film		W J C00002236P520	1 C15	Film Stylor			D022471067050 1	R1	Carbon Film	400 labor	4/5 18/	1 00000404000	
R4	Carbon Film	100 konm 1/5	W J C00001046P520	¹ C16	Ceramic Disc			D000150167070 1	R2	Carbon Film	TUU KONM	1/5 VV	J C00001046P520 J C00005626P520	1
				C17/18	Ceramic H/K Axial		25 V	D005223574530 2	R3	Carbon Film	22 kohm	1/5 W	J C00002236P520	1
						•			-		NOTHI		- 0000022307320	'

Ref.No.	Description		Part No. Q'ty Version		Description		Q'ty Version	Ref.No.	Description				Q'ty Version
R4	Carbon Film		J C00001046P520 1	C130/131	Elect GE 2200 uF	35 V M D040222085200	2	Q140	DTA114YS, NPN			J601114YS0050	1
R5	Metal Film		J C06004716P520 1	C132	Elect GE 1 uF	50 V M D040010087100	1	Q141	BKTA1267, PNP			J5001267Y0050	1
R6	Carbon Film	100 kohm 1/5 W	J C00001046P520 1	C133	Ceramic H/K Disc 0.1 uF	50 V Z D004104097060	1	Q142/143	2SC1740S, NPN			J5021740S0010	2
R7	Carbon Film	10 kohm 1/5 W	J C00001036P520 1	C134	Elect GE 1 uF	50 V M D040010087100	1	Q164	BKTC3199, NPN			J5023199Y0050	1
R8	Metal Film	270 ohm 1/5 W	J C06002716P520 1	C135	Ceramic H/K Disc 0.1 uF	50 V Z D004104097060	1	Q165	DTC114YS, NPN	•		J6020114Y0050	1
R9	Metal Film	560 ohm 1/5 W	J C06005616P520 1	C136~138	Film Polyester 0.047 uF	100 V J D02047306C060	3						
R10	Metal Film		J C06001026P520 1	C139	Elect GE 10000 uF	16 V M D040103083020	1		Resistors				
R11	Metal Film		J C06001816P520 1	C140	Elect GE 2200 uF	16 V M D040222083020	1	R101	Metal Film	2 à Mahm	- 4/0 14/	00000000574500	4
R12	Metal Film		J C06005616P520 1	C141	Elect GE 1 uF	50 V M D040010087100	1					C060033574530	1
R13	Metal Film		J C06003326P520 1	C142	Ceramic H/K Disc 0.1 uF	50 V Z D004104097060	1	R102	Metal Film	470 ohm		C06004716P520	1
R14	Metal Film			C143			1	R103	Carbon Film			C00001036P520	1
and the second s			J C06005616P520 1				1	R104	Carbon Film			C00001056P520	1
R15	Metal Film		J C06004716P520 1	C144	Ceramic H/K Disc 0.1 uF	50 V Z D004104097060	1	R105	Carbon Film	100 kohm	1/5 W J	C00001046P520	1
R16	Metal Film		J C06001016P520 1	C145	Elect GE 1 uF	50 V M D040010087100	1	R106	Metal Film	10 ohm	2W J	C060010066520	1
R17/18	Metal Film		J C06001026P520 2	C146	Ceramic H/K Disc 0.1 uF	50 V Z D004104097060	1	R107	Carbon Film	15 kohm	1/5 W J	C00001536P520	1
R20	Metal Film		J C06003316P520 1	C151	Elect GE 1 uF	50 V M D040010087100		R108	Metal Film	330 ohm	1/5 W J	C06003316P520	1
R21	Metal Film		J C06002716P520 1	C152	Elect GE 470 uF	6.3 V M D040471081100	1	R109	Carbon Film	1 Mohm	1/5W J	C00001056P520	1
R22	Metal Film	470 ohm 1/5 W	J C06004716P520 1					R110	Carbon Film			C00001046P520	1
R24	Metal Film	4.7 kohm 1/5 W	J C06004726P520 1		Connectors			R111/112	Metal Film	10 ohm	2W J		2
R25	Carbon Film	68 kohm 1/5 W	J C00006836P520 1	CN151	Wafer, 7.92mm, 2P	L104353280200	1	R113~115	Metal Film	1 ohm	2W J		3
R26	Carbon Film	47 kohm 1/5 W	J C00004736P520 1	CP100				R116	Metal Film	470 ohm		C06004716P520	4
R27	Carbon Film		J C00001036P520 1		B'D to B'D Plug, 2.5mm, 15P	L102532911910	1	R117					1
R28	Carbon Film		J C00002236P520 1	CP101	Wafer, 7.92mm, 4P	L104353280400	1		Metal Film	1 kohm		C06001026P520	1
R29	Metal Film		J C06002236F520 1	CP102	Wafer, 2.5mm, 6P	L102526706010		R118/119	Metal Film	470 ohm		C06004716P520	2
	Metal Film			CP103	Wafer, 2.5mm, 4P	L102526704010		R120	Metal Film			C06004726P520	1
R30		4.7 kohm 1/5 W		CP111	Wafer, 7.92mm, 2P	L108B2P300010		R142SL/SR	Carbon Film			C00002236P520	2
R31	Metal Film		J C06002726P520 1	CP141	Wafer, 2.5mm, 2P	L102526702010	1	R143	Carbon Film	22 kohm		C00002236P520	1
R32	Carbon Film		J C00005626P520 1	CP201	Wafer, 2.5mm, 8P	L102526708010	1	R144	Metal Film	4.7 kohm	1/5 W J	C06004726P520	1
R33	Metal Film		J C06003326P520 1	CP202	Wafer, 2.5mm, 7P	L102526707010		R145	Carbon Film	100 kohm		C00001046P520	1
R34	Metal Film		J C06001016P520 1	CP301	FPC Plug, 1.25mm, 31P	L131520453100	1	R146	Carbon Film	68 kohm	1/5 W J	C00006836P520	1
R35C	Metal Film		J C06001826P520 1	CP302	Wafer, 2.0mm, 7P	L101220070000	1	R147	Metal Film			C06003326P520	1
R36D	Carbon Film	47 kohm 1/5 W	J C00004736P520 1	CP401	B'D to B'D Plug, 2.0mm, 11P	L101353361110	1	R148	Metal Film	1.5 kohm		C06003526P520	1
R37D	Metal Film	22 ohm 1/5 W	J C06002206P520 1	CP402	B'D to B'D Plug, 2.0mm, 8P	L101353360810		R149	Metal Film			C06001026P520	1
R38D	Metal Film	1 kohm 1/5 W	J C06001026P520 1	CP451		L101353361610		11145	reictal I IIII	i Komii	1/5 VV J	C00001020F320	1
R39	Metal Film		J C06001016P520 1		B'D to B'D Plug, 2.0mm, 16P		į.						
R40	Carbon Film		J C00004736P520 1	CP501	B'D to B'D Plug, 2.0mm, 19P	L101353361910	1		Miscellaneous				
R41	Carbon Film		J C00002236P520 1	CP502	B'D to B'D Plug, 2.0mm, 15P	L101353361510	1	RLY101	SDT-SS-112DM/12VI	DC - 5A, Relay		G680125020010	1
R42	Metal Film	3.3 kohm 1/5 W		CP503	CNT Ass'y, 300mm,1P	L033595840300	1	TRANS101	Standby Trans, 120V/	60Hz		8200280960010	1 A
				CP751D	Wafer, 7.92mm, 2P	L104353280200	1 D,RDS		Standby Trans, 230V/	50Hz		8200281012910	1 D.RDS
R43	Carbon Film	22 kohm 1/5 W			CNT Ass'y, 2P	L011025047770	1 D,RDS		Standby Trans, 220V/	60Hz			1 K
R44	Carbon Film	47 kohm 1/5 W		CP801	B'D to B'D Plug, 2.0mm, 11P	L101353361110	1	POWER TRAN	Power Transformer, 1	20V/60Hz		8200281016260	1 A
R46L/R	Carbon Film		J C00002246P520 2	CP901	B'D to B'D Plug, 2.5mm, 11P	L102534211110	1		Power Transformer, 2			8200281016360	
R47L/R	Carbon Film	270 kohm 1/5 W							Power Transformer, 2			8200281016460	
R48L/R	Metal Film	2.7 kohm 1/5 W			Diodes			POSISTOR	Posistor Assy, 180 2.5			F328380001830	1
R49L/R	Metal Film	3.3 kohm 1/5 W	J C06003326P520 2	D101~106	1N4003, Rectifier	K040400300520	6	1 00101010	1 03/3(0) A33y, 100 2.	,,		F32030000 1030	'
R50D	Metal Film	680 ohm 1/5 W	J C06006816P520 1	D107-100	UZ4.3BSB, Zener		4	1.17 (11.18.18.19)			NOSE CENTRAL DE LA COMPANION DE		reconstructed and a second
R52D/53D	Carbon Film	10 kohm 1/5 W	J C00001036P520 2			K06004R314520	1	PCB3	ASSEMBLY P.C.BO	JARU AMP		7028040887200	K
R56D	Carbon Film	2.2 Mohm 1/5 W	J C00002256P520 1	D108/109	1N4148M, Switching	K000414801520		PCB3	ASSEMBLY P.C.BO	ARD AMP		7028040888600	A
R57L/R	Metal Film	1.5 kohm 1/5 W	J C06001526P520 2	D110/111	UZ9.1BSC, Zener	K06009R124520	2	PCB3	ASSEMBLY P.C.BO	ARD AMP		7028040890000	D
				D112	UZ12BSC, Zener	K060120024520	1	**************************************				CONTROL OF SECTION SET OF SECTION	686, 0.00 SEE TO AMERICAN SEC.
	Semi Fixed Vareable	Pacietore		D113	UZ7.5BSC, Zener	K06007R524520	1	PCB3	ASSEMBLY P.C.BO	DAKUAMP		7028040891400	RDS
VD4		resistors	0544500445000 4	D114	1N4148M, Switching	K000414801520	1		Capacitors				
VR1	5K(B)-H		C541502115000 1	D116/117	D5SBA60, Rectifier Bridge	K047056000010	2	C201L/R/C	Elect GE	47 uF	16 V M	D040470083100	3
VR2	50K(B)-H		C541503115000 1	D119~128	1N4003, Rectifier	K040400300520	10	C201SL/SR	Elect GE	47 uF		D040470083100	
VR3	200K(B)-H		C541204115000 1	D129	UZ9.1BSC, Zener	K06009R124520	1	C202L/R/C	Ceramic T.C Axial	100 pF		D001101077530	
				D130	1N4148M, Switching	K000414801520		C202SL/SR	Ceramic H/K Axial	270 pF		D005271077530	
	Miscellaneous				,		-	C2023D3R C203L/R/C	Not Used!	210 pr	20 A 1	D003211011330	_
CN100	PLUG, 15P M.O		L112524191900 1		Fuses			C203E/K/C					
FE1	Tuner FM, FTH4-460H		E900446000110 1	E404		0000001011	4 4		Not Used!	4	5014	D040040007107	•
TC1	Trimmer Ceramic, 10 pF	:	D110100901100 1	F101	Fuse, SB 8A, 125V	G650802121150		C204L/R/C	Elect GE	1 uF		D040010087100	
X1	7.2 MHz		E800720000080 1		Fuse, T 5A, 250V	G650502251160		C204SL/SR	Elect GE	1 uF		D040010087100	
					Fuse, NB 6A, 250V	G650602251150		C205L/R/C	Elect GE	22 uF		D040220083100	
X2	Resonator, CSB456F		E830456000050 1	F102D	Fuse, T 2AL, 250V			C205SL/SR	Elect GE	22 uF		D040220083100	
X3D	4.332 MHz		E800433200060 1	F103	Fuse, SB 315mA, 125V	G650311121160		C206L/R/C	Elect GE	220 uF		D040221082100	
					Fuse, T 315mAL, 250V	G650311251160	1 D,RDS	C206SL/SR	Elect GE	220 uF	10 V M	D040221082100	2
PCB2	ASSEMBLY P.C.BOA		7028040887000 K		Fuse, NB 315mA, 250V	G650311251150		C209L/R/C	Elect GE	10 uF	50 V M	D040100087100	3
PCB2	ASSEMBLY P.C.BOA	ARD MAIN	7028040888400 A	F104/105	Fuse, SB 1A,125V	G650102121160		C209SL/SR	Elect GE	10 uF		D040100087100	
PCB2	ASSEMBLY P.C.BOA	ARD MAIN	7028040889800 D	Contract Con	Fuse, T 1AL, 250V	G650102251160		C210L/R/C	Elect GE	470 uF		D040471088020	
PCB2	ASSEMBLY P.C.BOA		7028040891200 RDS		Fuse, NB 1A, 250V	G650102251150		C210SL/SR	Elect GE	470 uF		D040471088020	
			A CABO-POS IZOU RUS	F106/107	Fuse, SB 1.5A, 125V	G650152121150		C211L/R/C	Elect GE	470 uF		D040471088020	
	Capacitors			. 100/10/	Fuse, T 1.6AL, 250V	G650162251160		C211SL/SR	Elect GE	470 uF		D040471088020	
C101	();	0.0047 uF 400 VA	D00847208K03D 1		Fuse, NB 2A, 250V			C212L/R/C	Elect GE	10 uF		D040100087100	
C102~104	Film Polyester		J D02047306C060 3		, use, No ZA, ZUV	G650202251150	2 N	C2125L/SR					
	Elect GE	330 uF 25 V	M D040331084100 1		1.4				Elect GE	10 uF		D040100087100	
C107	Ceramic H/K Disc	0.1 uF 50 V	Z D004104097060 1		Integrated Circuits			C214L/R/C	Ceramic T.C Axial	1 pF	50 V J		
C107			M D040010087100 1	IC101	KIA7815, Linear-Regulater	J126781500020	1	C214SL/SR	Ceramic T.C Axial	1 pF		D001010077530	
C107 C108	Elect GE		M D040101085100 1	IC102	KIA7915, Linear-Regulater	J126791500030		C215L/R/C	Ceramic H/K Axial	180 pF	50 V J		
C107 C108 C109				IC103/104	KIA7805, Linear-Regulater	J126780500270		C215SL/SR	Ceramic H/K Axial	180 pF	50 V J	D005181077530	2
C107 C108 C109 C110	Elect GE		M D040153088300 2					00401 (0					
C107 C108 C109 C110 C111~112	Elect GE Elect GE	15000 uF 63 V	M D040153088300 2 M D040010087100 1	IC105	KIA7905, Linear-Regulater	J126790500070	1	C216L/R	Elect GE	10 uF		D040100087100	2
C107 C108 C109 C110 C111~112 C113	Elect GE Elect GE Elect GE	15000 uF 63 V 1 uF 50 V	M D040010087100 1	IC105	KIA7905, Linear-Regulater LTV817, Optocoupler	J126790500070 K614817000001	1	C216L/R C218	Elect GE Elect GE	10 uF 47 uF	50 V M		
C107 C108 C109 C110 C111~112 C113 C114	Elect GE Elect GE Elect GE Elect GE	15000 uF 63 V 1 uF 50 V 1000 uF 10 V	M D040010087100 1 M D040102082200 1	IC105 IC106	LTV817, Optocoupler	K614817000001	1				50 V M	D040100087100	
C107 C108 C109 C110 C111~112 C113 C114 C115~118	Elect GE Elect GE Elect GE Elect GE Film Polyester	15000 uF 63 V 1 uF 50 V 1000 uF 10 V 0.1 uF 250 V	M D040010087100 1 M D040102082200 1 K D02010407H080 4	IC105			1		Elect GE		50 V M	D040100087100	
C107 C108 C109 C110 C111~112 C113 C114 C115~118 C119	Elect GE Elect GE Elect GE Elect GE Film Polyester Elect GE	15000 uF 53 V 1 uF 50 V 1000 uF 10 V 0.1 uF 250 V 1 uF 50 V	M D040010087100 1 M D040102082200 1 K D02010407H080 4 M D040010087100 1	IC105 IC106	LTV817, Optocoupler KIA7806, Linear-Regulater	K614817000001	1	C218	Elect GE Connectors	47 uF	50 V M	D040100087100 D040470087100	1
C107 C108 C109 C110 C111~112 C113 C114 C115~118	Elect GE Elect GE Elect GE Elect GE Film Polyester	15000 uF 53 V 1 uF 50 V 1000 uF 10 V 0.1 uF 250 V 1 uF 50 V 0.1 uF 250 V	M D040010087100 1 M D040102082200 1 K D02010407H080 4	IC105 IC106	LTV817, Optocoupler	K614817000001	1		Elect GE	47 uF	50 V M	D040100087100	1

ef.No. P201	Description Wafer 2.0mm, 10P	I 104	Part No. Q	ty Version	Ref.No.	Description Metal Film	17 kahe	1/E\A/	Part No. 0	Q'ty Version	Ref.No.	Description		Part No.	Q'ty Version
P202	Wafer 3.96mm, 2P		220100000	1	R219L/R/C	Metal Film			J C06004726P520 J C06005616P520		D301~312	Diodes		V000444004500	40
					R219SL/SR	Metal Film	560 ohm			2	D301~312 D313	1N4148M, Switching SLR-34URCF25, Round	•	K000414801520 K500032101120	12
	Diodes				R220L/R/C	Metal Film	4.7 kohm	1/5 W	J C06004726P520	3	D314/315	1N4148M, Switching		K000414801520	2
201L/R/C	1N4148M, Switching	K000	414801520	3	R220SL/SR	Metal Film	4.7 kohm			2	D316~319	SLR-34URCF25, Round		K500032101120	
201SL/SR	1N4148M, Switching		414801520		R221L/R/C	Metal Film	82 ohm			3	D321/322	1N4148M, Switching		K000414801520	
202L/R/C	1N4148M, Switching		414801520		R221SL/SR	Metal Film	82 ohm			2					
202SL/SR	1N4148M, Switching	K0004	414801520	2	R222L/R/C R222SL/SR	Metal Film Metal Film	82 ohm 82 ohm			3		Transistors			
	T				R223L/R/C	Carbon Film	22 kohm			3	Q301	BKTC3199, NPN		J5023199Y0050	1
2041 /22/0	Transistors	1500			R223SL/SR	Carbon Film				2	Q302~304	DTC114YS, NPN		J6020114Y0050	3
201L/R/C	KTA1268, PNP		1268B0050		R224L/R/C	Carbon Film	22 kohm			3	Q305~308	BKTC3199, NPN		J5023199Y0050	4
201SL/SR 202L/R/C	KTA1268, PNP KTA1268, PNP		1268B0050 1 1268B0050 1		R224SL/SR	Carbon Film	22 kohm			2	Q309	MPSA06, NPN		J5020600Y0050	1
202SL/SR	KTA1268, PNP		1268B0050 3		R225L/R/C	Carbon Film			J C00002026P520	3	Q310/311	DTC114YS, NPN		J6020114Y0050	
203L/R/C	KTA1268, PNP		1268B0050		R225SL/SR	Carbon Film	2 kohm	1/5 W	J C00002026P520	2	Q312	BKTC3199, NPN		J5023199Y0050	1
203SL/SR	KTA1268, PNP		1268B0050		R226L/R/C	Metal Film	680 ohm	1/5 W	J C06006816P520	3		Decisters.			
204L/R/C	KTA1268, PNP		1268B0050		R226SL/SR	Metal Film	680 ohm			2	D204 240	Resistors	4 leabor 4/614/	1 00000400005500	40
204SL/SR	KTA1268, PNP		1268B0050 2		R227L/R/C	Metal Film	1.2 kohm		J C06001226P520	3	R301~310 R311~320	Metal Film Carbon Film		J C06001026P520	
205L/R/C	BKTC3200, NPN		3200B0050 3		R227SL/SR	Metal Film	1.2 kohm			2	R321~324	Carbon Film		J C00001046P520 J C00004736P520	10
205SL/SR	BKTC3200, NPN		3200B0050 2		R228L/R R228SL/SR/C	Metal Film Metal Film	75 ohm			2	R325	Carbon Film		J C00004736P520	4
206L/R/C	BKTC3200, NPN		3200B0050		R229L/R	Metal Film	220 ohm 75 ohm			3 2	R326~328	Carbon Film		J C00001036P520	3
206SL/SR	BKTC3200, NPN		3200B0050 2		R229SL/SR/C	Metal Film	220 ohm			3	R329	Metal Film		J C06004726P520	1
207L/R/C	KTA1268, PNP		1268B0050 3		R230L/R/C	Metal Film	82 ohm			3	R330/331	Carbon Film		J C00002236P520	2
207SL/SR	KTA1268, PNP		1268B0050 2		R230SL/SR	Metal Film	82 ohm			2	R332RV	Carbon Film			1 A
08L/R/C	2SA1360, PNP		360O000D 3		R231L/R/C	Metal Film				3	R333A	Carbon Film			1 A
08SL/SR 09L/R/C	2SA1360, PNP 2SC3423, NPN		360O000D 2		R231SL/SR	Metal Film	3.3 ohm			2	R334/335	Carbon Film		J C00006836P520	2
09SL/SR	2SC3423, NPN 2SC3423, NPN		3423O0000 3 3423O0000 2		R232L/R/C	Metal Film	3.3 ohm		J C0603R306P520	3	R336	Carbon Film	10 kohm 1/5 W	J C00001036P520	1
IOL/R/C	2SC1740S, NPN		1740S0010 3		R232SL/SR	Metal Film	3.3 ohm		C0603R306P520	2	R337/338	Metal Film	470 ohm 1/5 W	J C06004716P520	2
10SL/SR	2SC1740S, NPN		1740S0010 2		R233L/R/C	Metal Film	1.8 kohm	1/5 W	J C06001826P520	3	R339	Metal Film		J C06003926P520	1
11L/R/C	2SC4883, NPN		4883Y0000 3		R233SL/SR	Metal Film	1.8 kohm	1/5 W	C06001826P520	2	R340	Carbon Film		J C00001036P520	1
11SL/SR	2SC4883, NPN		4883Y0000 2		R234L/R/C	Carbon Film				3	R341/342	Metal Film			2
12L/R/C	2SA1859, PNP		1859Y0000 3		R234SL/SR	Carbon Film		1/5 W		2	R343/344	Carbon Film		J C00002236P520	2
12SL/SR	2SA1859, PNP	J5001	1859Y0000 2	2	R235L/R/C	Metal Film	910 ohm	1/5 W		3	R345/346 R347	Carbon Film Metal Film		J C00001036P520 J C06001016P520	2
13L/R/C	2SC5200, NPN	J5025	520000010 3	}	R235SL/SR	Metal Film		1/5 W		2	R348RDS	Carbon Film			1 RDS
13SL/SR	2SC5200, NPN		520000010 2		R236L/R/C R236SL/SR	Carbon Film Carbon Film		1/5 W .		3	R349	Metal Film		J C06004716P520	1 1
14L/R/C	2SA1943, PNP		194300010 3		R237L/R/C	Metal Film		1/5W .		2	R350	Carbon Film		J C00001046P520	1
214SL/SR	2SA1943, PNP		194300010 2		R238L/R/C	Metal Film		1/5 W		3	R351/352	Metal Film		J C06003396P520	2
15L/R/C	BKTC3200, NPN		3200B0050 3		R239L/R/C	Metal Film		1/5 W		3	R353/354	Carbon Film			2
15SL/SR	BKTC3200, NPN	J5023	3200B0050 2	!	R240L/R/C	Metal Film		1/5 W		3	R355	Carbon Film		J C00001036P520	1
	Daniston				R243	Metal Film		1/5 W		1	R356	Metal Film		J C06001016P520	1
00041 (0.00	Resistors	0.07 5144 0.4445	30700000		R245L/R	Carbon Film	22 kohm	1/5W .	C00002236P520	2	R357~360	Carbon Film	100 kohm 1/5 W	J C00001046P520	4
P201L/R/C	Cement MPR Dual		R27069300 3		R246	Metal Film	560 ohm	1/5 W .	C06005616P520	1	R361	Carbon Film		J C00002236P520	1
RP201SL/SR 01L/R/C	Cement MPR Dual Metal Film	0.27 ohm 5 W J C144R 1 kohm 1/5 W J C0600	R27069300 2 01026P520 3								R362	Metal Film		J C06004726P520	1
01SL/SR	Metal Film		01026P520 2			Miscellaneous					R363	Carbon Film		J C00002236P520	1
02L/R/C	Carbon Film		03336P520 3		GND201	Terminal GND			3790040876010	1	R364 R365~368	Carbon Film Metal Film	220 kohm 1/5 W 2.2 kohm 1/5 W	J C00002246P520	1
02SL/SR	Carbon Film	33 kohm 1/5 W J C0000			L201L/R/C	Filter Inductor, 0.5 uH				3	R369/370	Carbon Film	68 kohm 1/5 W		2
03L/R/C	Metal Film	180 ohm 1/5 W J C0600			TH201L/R/C	Thermistor, 3 kohm			F340530200000		R371	Carbon Film		J C000001036P520	1
03SL/SR	Metal Film	180 ohm 1/5 W J C0600	01816P520 2	2	TH201SL/SR	Thermistor, 3 kohm			F340530200000	2	R372NORDS	Carbon Film		J C00001036P520	1 ADRDSK
04L/R/C	Metal Film		01816P520 3		* ACCEMBLY	D C DO 4 DD EDOUT /	DOD 4 F 6 1		7000040007400		R373RDS	Carbon Film		J C00001046P520	
04SL/SR	Metal Film	180 ohm 1/5 W J C0600				P.C.BOARD FRONT (7028040887400	K	R374	Carbon Film		J C00001036P520	1
05L/R/C	Metal Film	1.5 kohm 1/5 W J C0600				P.C.BOARD FRONT (7028040888800	A	R375	Carbon Film		J C00004736P520	1
05SL/SR	Metal Film	1.5 kohm 1/5 W J C0600				P.C.BOARD FRONT (7028040890200	D	R376	Carbon Film	10 kohm 1/5 W	J C00001036P520	1
06L/R/C	Metal Film	1.5 kohm 1/5 W J C0600			* ASSEMBLY	P.C.BOARD FRONT (PCB 4, 5, 6,	7, 8, 9)	7028040891600	RDS	R377	Carbon Film	100 kohm 1/5 W	J C00001046P520	1
6SL/SR	Metal Film	1.5 kohm 1/5 W J C0600)1526P520 2		PCB4	ASSEMBLY P.C.BO	ARD FRONT				R378	Carbon Film		J C00001036P520	1
7L/R/C	Not Used!					Capacitors					R379	Carbon Film	8.2 kohm 1/5 W	J C00008226P520	1
07SL/SR	Not Used! Carbon Film	18 kohm 1/5 W J C0000	110260520 2		C301-310	Ceramic T.C Axial	100 pF	50 V .	D001101077530	10	R380	Metal Film		J C06001816P520	1
08L/R/C 08SL/SR	Carbon Film	18 kohm 1/5 W J C0000			C312	Film Polyester	0.047 uF	100 V		1	R381	Metal Film	470 ohm 1/5 W		1
9L/R/C	Metal Film	220 ohm 1/5 W J C0600			C313	Elect GÉ	0.1 uF	50 V N	D040R10087100	1	R382	Metal Film		J C06001026P520	1
9SL/SR	Metal Film	220 ohm 1/5 W J C0600			C314/315	Ceramic T.C Axial	820 pF	50 V .	D001821077530	2	R383/384	Carbon Film	5.1 kohm 1/5 W	J C00005126P520	2
IOL/R/C	Carbon Film	10 kohm 1/5 W J C0000			C316	Elect GE	47 uF	16 V N	D040470083100	1					
IOSL/SR	Carbon Film	10 kohm 1/5 W J C0000			C317	Elect GE	47 uF	25 V N	D040470084100	1		Miscellaneous			
1L/R/C	Carbon Film	43 kohm 1/5 W J C0000			C318	Elect GE	10 uF		D040100087100	1	FL301	FIP-8DM7R, Display FLT		K530001890010	
1SL/SR	Carbon Film	43 kohm 1/5 W J C0000			C319	Elect GE	47 uF		D040470087100	1	IC301	CXP-82852-114Q, DWP4		J020828521140	1
2L/R/C	Carbon Film	1.3 kohm 1/5 W J C0000			C320	Elect GE	10 uF		1 D040100083100	1	IC302	CRV1G342-185BD, RMC	Module	E940342210000	1
SL/SR	Carbon Film	1.3 kohm 1/5 W J C0000			C321	Ceramic T.C Axial	100 pF		D001101077530	1	SW339	Tact Sw Encoder Volume		G180040500010	1
13L/R/C	Carbon Film	33 kohm 1/5 W J C0000			C322	Double Layer	0.047 uF	5.5 V	D090473700200	1	VR351	Encoder Volume Resonator, Ceramic 10 M	U⇒	C49004106001A	1
3SL/SR	Carbon Film	33 kohm 1/5 W J C0000			C323/324	Ceramic T.C Axial	100 pF	50 V .	D001101077530	2	X-TAL301 VR301	Resonator, Ceramic, 10 M EC16B24D0002-ZZZ	Π4	E830100000050	1
14L/R/C	Metal Film	560 ohm 1/5 W J C0600				0					V1/301	LO 10024D0002-ZZZ		C450042030010	I
14SL/SR	Metal Film	560 ohm 1/5 W J C0600				Connectors				_	PCB5	ACCEMBIA DO BOS	DO TONE	26 K. JA 2011 T.	r <u>ings ar Protection between the state</u>
5L/R/C	Jumper		084006020 3		CN301	FPC Plug Angle, 1.25m			L131520443100	1	TVB	ASSEMBLY P.C.BOA	W TURE		
5SL/SR	Jumper		084006020 2		ONICCO	FPC Cable, 1.25mm, 3			L302331310010	1		Capacitors			
Ct 11.1173	Metal Film	560 ohm 1/5 W J C0600			CN302	CNT Ass'y, 400mm, 7P			L022074031320	1	C601L/R	Elect GE		M D0404R7087100	
		560 ohm 1/5 W J C0600	05616P520 2	:	CN303	CNT Ass'y, 160mm, 3P			L024031632320	1 4 5 14	C602L/R	Ceramic T.C Axial	47 pF 50 V	J D001470067530	2
216L/R/C 216SL/SR	Metal Film		15646D500 0	,	CD3U4VDV	CNT Acely 2P			1 024020222240			Floor CF	40 UE 4011		
	Metal Film Metal Film Metal Film	560 ohm 1/5 W J C0600 560 ohm 1/5 W J C0600			CP304ABK CN305	CNT Ass'y, 2P CNT Ass'y, 80mm, 4P			L024020832310 L021040833320	1 A,B,K	C603L/R C604L/R	Elect GE Elect GE		M D040100083120 M D040100083120	2

Ref.No.	Description				Part No.	Q'ty	Version	Ref.No.	Description				Part No.	Q'ty
C606L/R	Film Polyester	0.015 uF	63 V	J	D020153068050	2		PCB9	ASSEMBLY P.C.BO	DARD ENCOD	ER			
C607L/R	Film Polyester	0.022 uF	63 V	J	D020223068050	2		C351/352	Ceramic T.C Axial	820 pF	50 V	enerana I	D001821067530	2
C608L/R	Film Polyester	0.0033 uF	63 V	J	D020332068050	2		VR351	Rotary	ozo pi	00 \$	•	C49004106001A	
C609L/R	Film Polyester	0.33 uF	63 V	J	D020334068050	-2		V11001	rotary				0430041000017	•
C610L/R	Film Polyester	0.0082 uF	63 V	J	D020822068050	2		1 ACCEMBLY	O C DOADS MINUT	non an aa		****	7070040007000	
C611L/R	Elect GE	10 uF	16 V	M		2			P.C.BOARD INPUT (7028040887600	
C612	Elect GE	3.3 uF	50 V		D0403R3087100	1		* ASSEMBLY	P.C.BOARD INPUT (PCB 10, 11, 1	2)		7028040889000	
C613/C614	Elect GE	47 uF	25 V		D040470084100	2		* ASSEMBLY	P.C.BOARD INPUT	PCB 10 11 1	21		7028040890400	
C651LD/RD	Ceramic T.C Axial	100 pF	50 V	J	D001101077530	2	D,RDS							
C652LD/RD	Ceramic T.C Axial	100 pF	50 V	j	D001101077530	2	D,RDS	manager and hope and an analytic property	P.C.BOARD INPUT (000000000000000000000000000000000000000	4)		7028040891800	theateach
C653	Elect GE	33 uF	25 V	М		1	ט,אטט	PCB10	ASSEMBLY P.C.BO	DARD INPUT				
5055	LIECT GE	35 ur	25 V	IAI	D040330064100	'			Capacitors	200				
								C401~410LD/R	Ceramic T.C Axial	100 pF	50 V	J	D001101077530	20
	Connectors							C411	Elect GE	47 uF	25 V	М		1
CP305	Wafer, 2.0mm, 4P, AN	GEL			L101220040010	1		C412 ·	Elect GE	1 uF	50 V	M		1
CN601	Wafer, 2.0mm, 5P				L101220050000	1								-
	CNT Ass'y, 5P				L021054584320	1		C414	Elect GE	47 uF	25 V	M		1
CN602	Wafer, 2.0mm, 9P				L101220090000	1		C417	Ceramic T.C Axial	100 pF	50 V	J	D001101077530	1
	CNT Ass'y, 9P				L021094070320	1		C418~421	Elect GE	47 uF	25 V		D040470084100	4
W651	Lug Wire, 1P				L046241020580	1		C422L/R	Elect GE	4.7 uF	50 V		D0404R7087100	2
								C423L/R	Elect GE	4.7 uF	50 V		D0404R7087100	2
	Diodes							C424L/R	Elect GE	4.7 uF	50 V	M	D0404R7087100	2
D651	SLR-56URCF14, Roun	nd			K500052101160	1		C425L/R	Elect GE	4.7 uF	50 V	М	D0404R7087100	2
					11000002101100	•		C426LD/RD	Ceramic T.C Axial	100 pF	50 V	J	D001101077530	2
	Transistars							C427L/R	Ceramic T.C Axial	100 pF	50 V	J	D001101077530	2
0004	Transistors							C428L/R	Elect GE	4.7 uF	50 V		D0404R7087100	2
Q601	DTC114YS, NPN				J6020114Y0050	1		C429LD/RD	Ceramic H/K Axial	0.0022 uF	16 V	J	D005222773530	2
Q602	DTA114YS, PNP				J601114YS0050	1		C430L/R	Elect GE	33 uF	25 V	M		2
Q603L/R	2SK117Y				J5441170Y0050	2		C431L/R	Film Polyester	0.0018 uF	100 V		D02018206C060	2
Q651	DTC114YS, NPN				J6020114Y0050	1		C432L/R	Film Polyester	0.0056 uF	100 V	J	D02056206C060	2
								C432L/R	Elect GE	1 uF	50 V	M		2
	Resistors													
R601L/R	Carbon Film	100 kohm	1/5 W	J	C00001046P520	2		C434L/R	Film Polyester	0.0018 uF	100 V	J	D02018206C060	2
R602L/R	Carbon Film	1 Mohm			C00001046P520	2		C435/436	Elect GE	47 uF	25 V	M	D040470084100	2
R603L/R	Carbon Film	47 kohm		-	C00001036F520	2		C437	Ceramic HIK Axial	10000 pF	16 V	J	D005103773530	1
R604L/R	Metal Film	2.7 kohm		-										
	Carbon Film				C06002726P520	2			Connectors					
R605L/R R606L/R	Metal Film				C00001066P520	2		CN401	B'D to B'D Wafer, 2.01	nm, 11P			L101352371110	1
		4.7 kohm	1/5 W		C06004726P520	2		CN402	B'D to B'D Wafer, 2.0r	mm, 8P			L101352370810	1
R607L/R	Carbon Film	27 kohm	1/5 W		C00002736P520	2								
R608L/R	Metal Film	3.3 kohm			C06003326P520	2			Diodes					
R609L/R	Carbon Film	22 kohm		-	C00002236P520	2		D401	1N4148M, Switching				K000414801520	1
R610L/R	Metal Film	560 ohm			C06005616P520	2		5401	THAT I ADMI, CHIRCITAIN				11000414001020	•
R611L/R	Metal Film	2.2 kohm		_	C06002226P520	2			Internated Circuite					
R612L/R	Metal Film	1.8 kohm		-	C06001826P520	2			Integrated Circuits					
R613L/R	Carbon Film	100 kohm			C00001046P520	2		IC401	LC7821, Logic				J040782100010	
R614	Carbon Film	100 kohm			C00001046P520	1		IC402~404	KIA4559, Linear OP				J121455900010	3
R615	Carbon Film				C00001056P520	1								
R616/617	Metal Film	220 ohm		-	C06002216P520	2			Coils					
R618L/R	Carbon Film	1 Mohm	1/5 W	J	C00001056P520	2		L401LD/RD	Filter Inductor, 47 uH				D330470001020	2
R651	Metal Film	820 ohm	1/5 W	J	C06008216P520	1			,					
R652L/R	Metal Film	470 ohm			C06004716P520	2			Resistors					
R653	Metal Film	75 ohm	1/5 W	J	C06007506P520	1		D 4041 /D		470 ohm	4/6 \A/		C00004746DE00	2
								R401L/R	Metal Film	470 ohm	1/5 W	J	C06004716P520	2
	Miscellaneous							R402L/R	Metal Film	470 ohm	1/5 W	J	C06004716P520	2
CP601	Wafer, 2.0mm, 5P				L101220050000	1		R403L/R	Metal Film	470 ohm	1/5 W	j	C06004716P520	2
IC601	NJM2068M, Linear OP					1		R404L/R	Metal Film	470 ohm	1/5 W		C06004716P520	2
SW651	Tact Sw				J121206800020	-	D	R405L/R	Metal Film	1 kohm	1/5 W	J	C06001026P520	2
	RK16K128000114C, R	MD44			G180040500010		D	R406	Metal Film	220 ohm	1/5 W	J	C06002216P520	1
VR601/602					C455121402300	2		R407	Carbon Film	100 kohm	1/5 W	j	C00001046P520	1
VR603	RK16K118000114H, R	WW144			C455111402000	1		R408~412	Metal Film	220 ohm	1/5 W	J	C06002216P520	5
JACK601	RCA, 3P				G606040300000	1		R413~415	Metal Film	1 kohm			C06001026P520	3
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		parawanana.com.com.arkiteriarkeriarenandigaga	000000000000000000000000000000000000000	norman and a		Wasan and a fe	**************************************	R416L/R	Carbon Film	100 kohm	1/5 W	J	C00001046P520	2
PCB6	ASSEMBLY P.C.BO	ard hp/spk	SWITC	H				R417L/R	Carbon Film	100 kohm	1/5 W	J	C00001046P520	2
C701L/R	Ceramic HIK Axial	560 pF	50 V	J	D005561077530	2	300-47, 3100,000,000,000,000,000,000,000,000,000	R418L/R	Carbon Film	100 kohm	1/5 W	J	C00001046P520	2
CN701	CNT Ass'y 6P(2P+4P)				L018065042660	1		R419L/R	Carbon Film	100 kohm	1/5 W	J	C00001046P520	2
JACK701	HTJ064-11D(G)				G402040161330	1		R420L/R	Metal Film	1 kohm		_	C06001026P520	2
R701L/R	Metal Film	470 ohm	2 W		C060047166520	2		R421L/R	Carbon Film				C00009136P520	2
R702L/R	Carbon Film	15 kohm		_	C00001536P520	2		R422L/R	Carbon Film	91 kohm			C00009136P520	2
R703L/R	Carbon Film	22 kohm			C00001336P520	2		R423L/R	Metal Film	820 ohm	1/5 W	J	C06008216P520	2
SW701	SPLL, 19×1M071 SU6		110 44		G00002236F520	1		R424L/R	Carbon Film			J	C00004336P520	2
		,50				•				560 kohm				
N 701	Lug, 1P				L046241020580	1		R425L/R	Carbon Film			j	C00005646P520	2
				04216888787		ntaka sasan mit	F7150es 25000/2500002	R426L/R	Metal Film	560 ohm	1/5 W	J	C06005616P520	2
<u>wagana angka atawan</u>	ASSEMBLY P.C.BO.	ARD TACT SI	MTCH					R427L/R	Carbon Film	100 kohm		_	C00001046P520	2
	Wafer, 2P				L024020832310	1		R428/429	Metal Film	220 ohm	1/5 W		C06002216P520	2
						1		R430L/R	Metal Film	1 kohm		J	C06001026P520	2
CP304	Tact Sw				010007000010									2
CP304					0100040300010			R431L/R	Metal Film		1/5 W	J	C06001026P520	
CP304 SW751	Tact Sw	ARN PHELLE	MITCH			950 250 P		R431L/R R432	Metal Film Carbon Film	1 kohm 100 kohm	1/5 W 1/5 W	j	C06001026P520 C00001046P520	1
CP304 SW751 PCB8	Tact Sw ASSEMBLY P.C.BO	ARD PUSH S	WITCH				.					J		
CP304 SW751 PCB8 CN751D	Tact Sw ASSEMBLY P.C.BO CNT PLUG, 2P	ARD PUSH S	WITCH		L108B2P300010		D,RDS	R432	Carbon Film	100 kohm	1/5 W	J	C00001046P520	1
PCB7 CP304 SW751 PCB8 CN751D SW752D	Tact Sw ASSEMBLY P.C.BO	ARD PUSH S	WITCH				D,RDS D,RDS	R432 R433L/R	Carbon Film Metal Film	100 kohm 470 ohm	1/5 W 1/5 W 1/5 W	j	C00001046P520 C06004716P520	1 2

Ref.No.	Description				Part No.	Q'ty Version
PCB11	ASSEMBLY P.C.BO	ARD INPUT	R VIDEO)		
C450~459LD/RD	Capacitors Ceramic T.C Axial	100 pF	50 V	J	D001101077530	20
C460	Elect GE	47 uF	25 V		D040470084100	1
C461	Elect GE	1 uF	50 V		D040010087100	1
C463	Elect GE	47 uF	25 V		D040470084100	i
C466~469	Ceramic T.C Axial	100 pF	50 V		D001101077530	4
C470	Ceramic H/K Axial	0.1 uF	50 V	Z	D005104097530	1
C471	Elect GE	47 uF	25 V	M	D040470084100	1
C472	Elect GE	10 uF	50 V	M	D040100087100	1
C473	Elect GE	47 uF	25 V		D040470084100	1
C474/475	Elect GE	10 uF	50 V		D040100087100	2
C477	Elect GE	470 uF	10 V		D040471082100	1
C478	Ceramic H/K Axial	0.1 uF	50 V		D005104097530	1
C479	Elect GE	33 uF	25 V		D040330084100	1
C480 C481	Elect GE Elect GE	470 uF	10 V		D040471082100	1
C482	Elect GE	33 นF 470 uF	25 V 10 V		D040330084100 D040471082100	1
C483/484	Elect GE	33 uF	25 V		D040471082100 D040330084100	2
CN451 CP601	Connectors B'D to B'D Wafer, 2.0n Wafer, 2.0mm, 5P	nm, 16P			L101352371610 L101220050000	1
0.00.					L10122000000	'
D450/451	Diodes 1N4148M, Switching				K000414801520	2
	Integated Circuits					
IC450	LC7821, Logic				J040782100010	1
IC451	BA7625, Video SW				J171762500000	1
IC452	MC14053, Logic				J040140530000	1
IC453 Q450/451	MC14094, Logic BKTA1267, PNP				J040140940000 J5001267Y0050	1 2
	Resistors					
R451L/R	Metal Film	470 ohm	1/5 W		C06004716P520	2
R452L/R	Metal Film	470 ohm	1/5 W		C06004716P520	2
R453L/R	Metal Film	470 ohm	1/5 W		C06004716P520	2
R454L/R	Metal Film	470 ohm	1/5 W		C06004716P520	2 .
R455L/R	Metal Film	470 ohm	1/5 W		C06004716P520	2
R456 R457	Metal Film Carbon Film	220 ohm 100 kohm	1/5 W 1/5 W		C06002216P520	1
R458~463	Metal Film	1 kohm	1/5 W	-	C00001046P520 C06001026P520	6
R464~469	Metal Film	3.3 kohm			C06001026P520	6
R470	Metal Film	220 ohm			C06003320F320 C06002216P520	1
R471/472	Metal Film	100 ohm	1/5 W		C06001016P520	2
R473~478	Metal Film	75 ohm	1/5 W		C06007506P520	6
R479/480	Metal Film	100 ohm	1/5 W		C06001016P520	2
PCB12	ASSEMBLY P.C.BO	ARD SPEAKE	ir .			
C901L/R/C	Capacitors Film Polyester	0.047 uF	100 V		D02047306C060	
C901SL/SR	Film Polyester	0.047 uF	100 V		D02047306C060	3 2
C902LD/RD/CD		4700 pF	16 V		D02547300C000	3
C902SLD/SRD	Ceramic H/K Axial	4700 pF	16 V		D005472773530	2
C903LD/RD/CD		4700 pF	16 V		D005472773530	3
C903SLD/SRD	Ceramic H/K Axial	4700 pF	16 V	Ĵ	D005472773530	2
	Resistors					
R901L/R/C	Metal Film	10 ohm	2 W	j	C060010066520	3
R901SL/SR	Metal Film	10 ohm	2 W	J	C060010066520	2
R902SL/SR	Metal Film	10 ohm	1 W	J	C060010065520	2
CP701OUT CN901	Miscellaneous B'D to B'D Wafer, 2.5m Wafer, 3.96mm, 11P	nm, 4P			L104353130400 L102526681110	1
L901SL/SR	Coil, Filter Inductor, 0.5	5 uH			D330900001320	2
PCB13	ASSEMBLY P.C.BO	W	Markov Business	¥200	7028040888000	ĸ
PCB13	ASSEMBLY P.C.BO		Section Committee of		7028040889400	A
PCB13	ASSEMBLY P.C.BO	ARD PROCES	SSOR		7028040890800	D
PCB13	ASSEMBLY P.C.BO	ARD PROCES	SSOR		7028040892200	RDS
0.50.11.10	Capacitors					
C501L/R C502L/R	Film Polyester Film Polyester	0.1 นF 0.1 นF	63 V 63 V	J	D020104068050	2
CJUZLIN	i iiii r oiyestef	U.I UF	03 V	J	D020104068050	2

Part No. Q'ty Version

A

D

RDS

J D001101077530 20 D,RDS

50 V M D0404R7087100 2 50 V M D0404R7087100 2 50 V J D001101077530 2 D,RDS 50 V J D001101077530 2 50 V M D0404R7087100 2 16 V J D005222773530 2 D,RDS 25 V M D040330084100 2

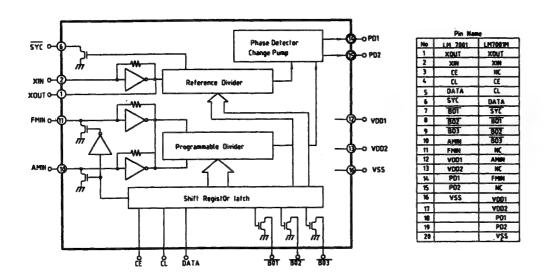
Ref.No.	Description			Part No. Q'ty Vers	sion Ref.No.	Description		Part No. (Q'ty Version	Ref.No.	Description			Part No. (Q'ty Version
C503L/R	Ceramic Chip T.C	100 pF	50 V	D010101167210 2	D501~509	1N4148M, Switching		K000414801520		R560L/R	Chip Thick	100 kohm	1/10 \\	C200010460200	Q ty Version
C504L/R	Elect GE	2.2 uF	50 V	M D0402R2087100 2	D510	UZ5.1BSB ,Zener		K06005R114520		R561L/R	Chip Thick			C200010460200	2
C505L/R	Elect GE	2.2 uF		M D0402R2087100 2	20.0	020,1000 ,201.01		110000011114020	•	R562L/R	Chip Thick			C200013260200	
C506L/R	Elect GE	4.7 uF		M D0404R7087100 2		Integrated Circuits				R563L/R	Chip Thick			C200022360200	
C507	Ceramic Chip T.C	100 pF	50 V		IC501	LC7822, Analog		J080782200000	4	R564L/R	Chip Thick			C200010480200	
C508L/R	Elect GE	4.7 uF	50 V	M D0404R7087100 2	IC502	MC14053, Analog		J080140530010	•	R565L/R	Chip Thick			C200010460200	
C509L/R	Ceramic Chip T.C	100 pF	50 V	D010101167210 2	IC503~505	LC7536, Elect VR		J084753600010		R566	Chip Thick			C200010260200	1
C510L/R	Elect GE	0.47 uF	50 V	M D040R47087100 2	IC506~508	NJM2068DD, Linear OP		J121206800000		R567L/R	Chip Thick			C200010260200	2
C511L/R	Ceramic Chip T.C	22 pF	50 V	D010220167210 2	IC509/510	NJM4580L, Linear OP			2	R568L/R	Chip Thick				2
C512L/R	Elect GE	4.7 uF	50 V	M D0404R7087100 2	IC511/512	NJM2068DD, Linear OP			2	R569L/R	Metal Film			C06002226P520	_
C513L/R	Ceramic Chip T.C	0.1 uF	50 V	D011104597210 2	IC513	NJM4580L, Linear OP		J121458000030	1	R570~573	Carbon Film			C00001536P520	4
C514L/R	Elect GE	4.7 uF	50 V	M D0404R7087100 2	IC514	NJM2068DD, Linear OP		J121206800000	1	R574	Metal Film			C06002226P520	1
C516	Elect GE	47 uF	25 V		IC515	NJM4580L, Linear OP		J121458000030	1	R575	Carbon Film			C00001036P520	1
C517L/R	Elect GE	10 uF	50 V	M D040100087100 2	IC516/517	NJM2068DD, Linear OP		J121206800000	2	R576	Metal Film			C06001026P520	1
C518LD/RD	Ceramic T.C Axial	100 pF		J D001101077530 2	IC518/519	NJM4580L, Linear OP		J121458000030		R577	Metal Film			C06001026P520	1
C519	Elect GE	47 uF		M D040470084100 1					_	R578	Carbon Film			C00001036P520	1
C520	Elect GE	1 uF		M D040010087100 1		Transistors				R579	Metal Film	4.7 kohm	1/5 W J	C06004726P520	1
C521~523	Elect GE	47 uF			Q501~504	DTA114YS, PNP		J601114YS0050	4	R580L/R	Metal Film	470 ohm	1/5 W J	C06004716P520	2
C524	Ceramic Chip T.C	100 pF	50 V	D010101167210 1	Q505L/R	KTD1302, NPN		J5031302B0050		R581L/R	Metal Film	47 ohm			2
C525	Elect GE	2.2 uF	50 V	M D0402R2087100 1	Q506/507	KTD1302, NPN		J5031302B0050		R582L/R	Chip Thick	560 ohm	1/10 W J	C200056160200	2
C526	Film Polyester	0.1 uF		J D020104068050 1	Q508L/R	KTD1302, NPN		J5031302B0050		R583	Chip Thick	5.6 kohm	1/10 W J	C200056260200	1
C527	Film Polyester	0.1 uF	63 V		Q509L/R	2SK117Y		J5441170Y0050		R584	Chip Thick	3.9 kohm	1/10 W J	C200039260200	1
C528	Ceramic Chip T.C	100 pF	50 V	D010101167210 1	Q510L/R	2SK117Y		J5441170Y0050		R585	Metal Film			C06004706P520	1
C529	Elect GE	2.2 uF	50 V	M D0402R2087100 1					-	R586	Chip Thick	33 kohm	1/10 W J	C200033360200	1
C530/531	Elect GE	4.7 uF	50 V	M D0404R7087100 2		Resistors				R587	Metal Film			C06004726P520	1
C532	Ceramic Chip T.C	100 pF	50 V	D010101167210 1	R500	Chip Thick	820 kohm 1/10W J	C200082460200	1	R588	Chip Thick			C200010260200	1
C533 C534	Ceramic Chip T.C	0.1 uF	50 V	D011104597210 1	R501L/R	Chip Thick	100 kohm 1/10 W J		2	R589L/R	Chip Thick			C200010460200	2
C535	Elect GE	0.47 uF	50 V 50 V		R502L/R	Chip Thick		C200010460200		R590	Chip Thick			C200047260200	1
C536/537	Ceramic Chip T.C Elect GE	22 pF 4.7 uF	50 V	D010220167210 1 M D0404R7087100 2	R503L/R	Chip Thick	10 kohm 1/10W J		2	R591	Metal Film	47 ohm		C06004706P520	1
C538/539	Ceramic Chip T.C	100 pF	50 V	D010101167210 2	R504L/R	Chip Thick	100 kohm 1/10W J		2	R592L/R	Chip Thick			C200039260200	2
C540	Elect GE	10 uF	50 V		R505L/R	Chip Thick	100 kohm 1/10W J		2	R593	Chip Thick	820 kohm	1/10 W J	C200082460200	1
C541D/542	Ceramic T.C Axial	100 pF	50 V		R506L/R	Chip Thick	10 kohm 1/10W J		2				1483211111111111111111111111111111111111		
C543LD/RD	Ceramic T.C Axial	100 pF	50 V	J D001101077530 2	R507L/R	Chip Thick	220 kohm 1/10W J		2	PCB14	ASSEMBLY P.C.E	BOARD AC-3		7028040888200	K
C544L/R	Film Polyester	0.1 uF	63 V	J D020104068050 2	R508L/R	Chip Thick	56 kohm 1/10W J		2	PCB14	ASSEMBLY P.C.E	BOARD AC-3		7028040889600	A
C545L/R	Film Polyester	0.1 uF	63 V		R509L/R	Chip Thick	4.7 kohm 1/10W J	C200047260200	2	PCB14	ASSEMBLY P.C.E	BOARD AC-3		7028040891000	D
C546L/R	Ceramic Chip T.C	100 pF	50 V	D010101167210 2	R510	Chip Thick	100 kohm 1/10W J	C200010460200	1	PCB14	ASSEMBLY P.C.E	SOARD AC-3	e de co nstant de la constant de la	7028040892400	RDS
C547L/R	Elect GE	2.2 uF		M D0402R2087100 2	R511L/R	Chip Thick	470 ohm 1/10W J	C200047160200	2						NUG
C548L/R	Elect GE	2.2 uF	50 V	M D0402R2087100 2	R512/513	Metal Film	47 ohm 1/5 W J	C06004706P520	2	0004	Capacitors	0.000			
C549L/R	Elect GE	2.2 uF	50 V	M D0402R2087100 2	R514L/R	Chip Thick	100 kohm 1/10W J		2	C801	Ceramic Chip T.C	0.022 uF		D011223177210	1
C550L/R	Ceramic Chip T.C	100 pF	50 V	D010101167210 2	R515L/R	Chip Thick	820 kohm 1/10W J	C200082460200	2	C802~804 C805	Ceramic Chip T.C	0.1 uF		D011104177210	3
C551L/R	Elect GE	2.2 uF	50 V	M D0402R2087100 2	R516L/R	Chip Thick	100 kohm 1/10W J		2	C806	Elect GE Ceramic Chip T.C	47 uF 0.1 uF		D040470084100 D011104177210	1
C552L/R	Ceramic Chip T.C	100 pF	50 V	D010101167210 2	R517/518	Metal Film		C06001026P520	2	C807	Elect GE	47 uF		D011104177210	1
C553L/R	Ceramic Chip T.C	0.1 uF	50 V	D011104597210 2	R519L/R	Chip Thick	1 kohm 1/10W J		2	C808	Ceramic Chip T.C	75 pF		H D010750167210	1
C554L/R	Elect GE	0.47 uF	50 V	M D040R47087100 2	R520L/R	Metal Film	2.2 kohm 1/5 W J		2	C809	Ceramic Chip T.C	0.01 uF		D010730167210	1
C555L/R	Ceramic Chip T.C	22 pF	50 V	D010220167210 2	R521	Carbon Film	100 kohm 1/5 W J		1	C810/811	Ceramic Chip T.C	0.1 uF		D011104177210	
C556L/R	Elect GE	4.7 uF	50 V	M D0404R7087100 2	R522	Metal Film		C06004706P520	1	C812	Ceramic Chip T.C	0.01 uF		D011103177210	1
C557L/R	Ceramic Chip T.C	100 pF	50 V	D010101167210 2	R523 R524	Chip Thick	100 kohm 1/10W J		1	C813	Ceramic Chip T.C	0.001 pF		D010102167210	1
C558L/R	Elect GE	4.7 uF			R525	Chip Thick Chip Thick	10 kohm 1/10W J		1	C814	Elect GE	1 uF		D040010087100	1
C560L/R	Elect GE	10 uF		M D040100087100 2	R526	Chip Thick	22 kohm 1/10W J 100 kohm 1/10W J		1	C815	Ceramic Chip T.C	0.1 uF		D011104177210	1
C561LD/RD C562	Ceramic T.C Axial Elect GE	100 pF 47 uF		J D001101077530 2 M D040470084100 1	R527	Chip Thick	1.5 kohm 1/10 W J		1	C816	Elect GE	47 uF		D040470084100	1
C563	Ceramic Chip T.C	100 pF	25 V 50 V	D010101167210 1	R528	Chip Thick	22 kohm 1/10W J		1	C817	Elect GE	1 uF		D040010087100	
C564	Ceramic H/K Axial	0.1 uF			R529/530	Chip Thick	100 kohm 1/10W J		2	C818 -	Elect GE	47 uF	25 V M	D040470084100	1
C565L/R	Ceramic Chip T.C	1000 pF		CH D010102167210 2	R531L/R	Chip Thick		C200010260200		C819~821	Ceramic Chip T.C	0.1 uF	50 V Z	D011104177210	3
C566/567	Elect GE	2.2 uF		M D0402R2087100 2	R532	Chip Thick	1 kohm 1/10W J		1	C822/823	Ceramic H/K Axial	2200 pF	16 V J	D005222773530	2
C568/569	Film Polyester	0.027 uF		J D020273068050 2	R533	Metal Film	47 ohm 1/5 W J		1	C825/826	Elect GE	47 uF	25 V M	D040470084100	2
C570	Elect GE	2.2 uF		M D0402R2087100 1	R534	Metal Film	2.2 kohm 1/5 W J		1	C828	Ceramic Chip T.C	0.015 uF		D011153177210	
C571	Ceramic Chip T.C	100 pF	50 V	D010101167210 1	R535/536	Chip Thick	100 kohm 1/10 W J		2	C829	Ceramic Chip T.C	0.0015 uF		D011152177210	
C572	Ceramic Chip T.C	0.1 uF	50 V	D011104597210 1	R537/538	Chip Thick	33 kohm 1/10W J	C200033360200	2	C830/831	Ceramic T.C Axial	33 pF		D001330067530	
C573	Elect GE	0.47 uF	50 V	M D040R47087100 1	R539	Chip Thick	10 kohm 1/10W J	C200010360200	1	C832	Elect GE	1 uF		D040010087100	
C574	Ceramic Chip T.C	22 pF	50 V	D010220167210 1	R540/541	Chip Thick	33 kohm 1/10W J	C200033360200	2	C833	Ceramic Chip T.C	0.1 uF		D011104177210	1
C575/576	Elect GE	4.7 uF	50 V	M D0404R7087100 2	R542	Chip Thick	5.6 kohm 1/10W J	C200056260200	1	C834	Ceramic Chip T.C	22 pF		I D010220167210	1
C577	Ceramic Chip T.C	100 pF	50 V	D010101167210 1	R543	Chip Thick	4.7 kohm 1/10W J	C200047260200	1	C835	Ceramic T.C Axial	10 pF		D001100067530	1
C579	Elect GE	10 uF	50 V	M D040100087100 1	R544	Chip Thick	82 kohm 1/10W J	C200082360200	1	C836	Elect GE	22 uF		D040220083100	
C580D	Ceramic T.C Axial	100 pF	50 V	J D001101077530 1	R545	Carbon Film	15 kohm 1/5 W J		1	C837 C838	Ceramic Chip T.C Elect GE	0.1 uF		D011104177210	
C581	Ceramic H/K Axial	0.1 uF	50 V	Z D005104097530 1	R546	Chip Thick	51 kohm 1/10W J		1	C839/840	Ceramic Chip T.C	470 uF		D040471081100	
C582L/R	Ceramic H/K Axial	220 pF			R547L/R	Chip Thick		C200010260200	2	C841	Elect GE	0.1 uF 470 uF		D011104177210 D040471081100	
C583	Ceramic H/K Axial	220 pF		J D005221077530 1	R548	Chip Thick	100 kohm 1/10W J		1	C842	Ceramic Chip T.C	0.01 uF		D011103177210	
C584	Ceramic Chip T.C	0.0056 uF	50 V	B D011562177210 1	R549L/R	Carbon Film	3.3 Mohm 1/5 W J			C843L/R	Ceramic Chip T.C	0.001 uF			
					R550L/R	Carbon Film	3.3 Mohm 1/5 W J		2	C845L/R	Elect GE	0.0015 uF		D011152177210 D040100087100	
	Connectors				R551	Chip Thick	100 kohm 1/10W J		1	C846L/R/C/W	Elect GE	10 uF		D040100087100	
CN203	CNT Ass'y, 220mm, 1	10P		L021102277320 1	R552	Chip Thick	1.2 kohm 1/10W J		1	C846SL/SR	Elect GE	10 uF		D040100085100	
CN501	B'D to B'D Wafer, 2.0			L101352371910 1	R553	Chip Thick	6.2 kohm 1/10W J		1	C847/848	Ceramic Chip T.C	0.1 uF		D011104177210	
CN502	B'D to B'D Wafer, 2.0	mm, 15P		L101352371510 1	R554	Chip Thick	4.7 kohm 1/10W J		1	C849	Elect GE	47 uF	25 V M	D040470084100	1
CN503	CNT Plug, AC 1P			L103010000000 1	R555 R556L/R	Metal Film Chip Thick	2.2 kohm 1/5 W J 100 kohm 1/10 W J		2	C850	Ceramic Chip T.C	0.1 uF		D011104177210	
CP602	Wafer, 2.0mm, 9P			L101220090000 1	R557L/R	Chip Thick	10 kohm 1/10 W J			C851	Ceramic Chip T.C	2 pF	50 V	D010020117210	
					R558L/R	Chip Thick	22 kohm 1/10 W J			C852	Ceramic Chip T.C	18 pF	50 V J	D010180167210	1
	Diodes				R559L/R	Chip Thick	100 kohm 1/10W J			C852C/W	Ceramic Chip T.C	0.0015 uF	50 V CH	D011152177210	2

Ref.No.	Description		Part No.	Q'ty Version	Ref.No.	Description		Part No.	Q'ty Version	Ref.No.	Description			Part No.	Q'ty Version
C853	Elect GE 47		M D040470084100	1	R763C/W	Chip Thick	3.3 kohm 1/10 W J	C200033260200	2	R894	Chip Thick	10 kohm	1/10 W 、	C200010360200	1
C854	Ceramic Chip T.C 0.01		J D011103177210	1	R764SL/SR	Chip Thick	3.3 kohm 1/10 W J	C200033260200	2	R895	Chip Thick	100 ohm	1/10 W .	J C200010160200	1
C854C/W	Elect GE 10	uF 50 V M	M D040100087100	2	R766SL/SR	Chip Thick	100 ohm 1/10 W J	C200010160200	2	R896~898	Chip Thick	10 kohm	1/10 W .	C200010360200	3
C855	Elect GE 100		M D040101082100	1	R767SL/SR	Chip Thick	3.3 kohm 1/10 W J	C200033260200	2	R899	Chip Thick	220 kohm	1/10 W 、	C200022460200	1
C857	Ceramic Chip T.C 22		H D010220167210		R768SL/SR	Chip Thick	100 kohm 1/10 W J								
C858	Ceramic Chip T.C 0.01		J D011103177210		R769SL/SR	Chip Thick	1 kohm 1/10 W J				Miscellaneous				
C859/860	Ceramic Chip T.C 0.1		Z D011104177210		R770L/R/C/W	Chip Thick	2.2 kohm 1/10 W J			X801	18.432 MHz			E800184320810	1
C860SL/SR	Ceramic Chip T.C 0.0015		H D011152177210		R771C/W	Chip Thick	2.2 kohm 1/10 W J			X802	24.576 MHz			E800245760810	
C861/862	Elect GE 3.3		M D0403R3087100		R772SL/SR	Chip Thick	2.2 kohm 1/10 W J		2	X803	Resonator, Ceramic, 4	19 MHz		E830419000060	
C863L/R	Ceramic Chip T.C 0.0015		B D011152177210	2	R774	Chip Thick	470 ohm 1/10 W J		1	BPF801	Filter, BPF, 2.88 MHz			E440000010010	
C864	Elect GE 47		M D040470084100	1	R775	Chip Thick	4.7 kohm 1/10 W J		1		,				
C865C/W	Ceramic Chip T.C 0.0015		B D011152177210		R776	Chip Thick	470 ohm 1/10 W J	C200047160200	1	PCB15	ASSEMBLY P.C.BO	APD CUP CM		7028059580000	K,Á,RDS
C866SL/SR .	Elect GE 10		D040100087100	2	R777	Chip Thick	18 kohm 1/10 W J		1			AND 305 31	-4	7020033360000	М, А, МОЗ
C867	Elect GE 47		/ D040470084100	1	R778~780	Chip Thick	100 kohm 1/10 W J		3		Capacitors	_			
C868SL/SR	Ceramic Chip T.C 0.0015		B D011152177210		R781	Carbon Film	2.2 ohm 1/4 W J	C0002R2063520	1	C941	Elect GE 85C	1 uF		D040010087100	
C869~875	Ceramic Chip T.C 0.1		Z D011104177210	7	R782L/R/C/W	Chip Thick	100 kohm 1/10 W J		4	C942~944	Elect GE 85C	10 uF		D040100087070	
C876			/I D040010087100	1	R782SL/SR	Chip Thick	100 kohm 1/10 W J			C945	Elect GE 85C	4.7 uF		D0404R7087100	
C877L/R/C/W	Ceramic Chip T.C 0.0047		3 D011472177210		R783L/R/C/W	Chip Thick	· 2.2 kohm 1/10 W J		4	C946~952	Ceramic Hik Axial	0.001 uF	50 V F	D005102177530	7
C877SL/SR	Ceramic Chip T.C 0.0047		B D011472177210		R784C/W	Chip Thick	2.2 kohm 1/10 W J		2						
C880/881	Elect GE 10		M D040100085100		R785SL/SR	Chip Thick	2.2 kohm 1/10 W J		2 .		Diodes				
C882~891	Ceramic Chip T.C 0.1		Z D011104177210	·10	R786/787	Chip Thick	4.7 kohm 1/10 W J		2	D941~978	1SS133T, Switching			K000013300520	38
C892	Elect BP 47		/ D042470082110	1 ·	R788L/RC/W	Chip Thick	470 ohm 1/10 W J		4	D980~991	1SS133T, Switching			K000013300520	
C893	Elect GE 10		// D040100087100	1	789C/W	Chip Thick	470 ohm 1/10 W J			D992/993	UZ3.3BSB ,Zener			K06003R314520	
C894~896	Ceramic Chip T.C 0.01		J D011103177210	3	R790SL/SR	Chip Thick	470 ohm 1/10 W J		2	D994	1SS133T, Switching			K000013300520	1
C897	Elect GE 1	uF 50 V M	/I D040010087100	ı	R791	Chip Thick	470 ohm 1/10 W J		1				• •		
					R792/793	Chip Thick	22 kohm 1/10 W J		2		Integated Circuits				
•	Coils				R801	Chip Thick	100 ohm 1/10 W J		1	IC941~945	HEF4011B, Logic			J040401100030	5
L801/802	Filter Inductor, 68 uH		D330680001020		R802	Metal Film		C06005616P520	1	IC946	HEF4024B, Logic			J040402400000	
L803~805	BEAD, Chip-Type		7611010000000	3	R803~805	Chip Thick		C200010260200	3	IC947~949	HEF4011B, Logic			J040401100030	3
					R806	Chip Thick	4.7 kohm 1/10 W J		1						
	Connectors				R807	Chip Thick	150 ohm 1/10 W J		1		Transistors .				
CN801	B'D to B'D Wafer, 2.0mm, 11P		L101352371110	1	R808	Chip Thick	2.2 kohm 1/10 W J		1	Q941	DTC114TS, NPN			J600114TS0050	1
CN802	B'D to B'D Wafer, 2.0mm, 14P		L101352371410	1	R809~812	Chip Thick	1 kohm 1/10 W J		4	Q942~944	KTC3198, NPN			J5023198B0050	
					R813	Chip Thick	10 kohm 1/10 W J		1	Q945	DTC114TS, NPN			J600114TS0050	
	Diodes				R814	Chip Thick	1 kohm 1/10 W J		1	Q946~948	BKTA1266, PNP			J5001266Y0050	
D801~805	RLS4148, Switching		K009573221000	5	R815 R816	Chip Thick Chip Thick	4.7 kohm 1/10 W J 1 kohm 1/10 W J		1	Q949	DTC114TS, NPN			J600114TS0050	
VC101	KV1851, Varactor		K080185100010		R817	Chip Thick	5.1 kohm 1/10 W J		1	Q950	KTC3198, NPN			J5023198B0050	
					R818/819	Chip Thick		C200031260200	2		, , , , , , ,				
	Integrated Circuits				R820	Chip Thick	1.8 kohm 1/10 W J		1		Resistors				
IC801	MC14577BP, Monitor		J170145770000	1	R821/822	Chip Thick	10 kohm 1/10 W J		2	R941~945	Carbon Film	10 kohm	1/5 W J	C00001036P520	5
IC802	NJM2068M, Linear OP		J121206800020	1	R823	Chip Thick	4.7 kohm 1/10 W J		1	R946	Carbon Film			C00001056P520	1
IC803	PM4007A, Analog		J080400700010	1	R824	Chip Thick	100 kohm 1/10 W J		1	R947	Metal Film			C06003316P520	1
IC804	KM68257CJ, Memory RAM		J001682510010	1	R825	Chip Thick	4.7 kohm 1/10 W J		1	R948~950	Carbon Film				3
IC805	NJM2068M, Linear OP		J121206800020	1	R826	Chip Thick	3.9 kohm 1/10 W J		1	R951	Carbon Film			C00001046P520	1
IC806	CS4226, Analog		J080422600010	1	R827	Chip Thick	22 kohm 1/10 W J		i .	R952/953	Carbon Film	10 kohm			2
IC807	MC56009F, Analog		J080560098110	1	R828	Chip Thick	8.2 kohm 1/10 W J		1	R954	Carbon Film			C00001046P520	1
IC808	74HC76, Logic		J040747600040	1	R829	Chip Thick	68 kohm 1/10 W J		1	R955/956	Carbon Film			C00001036P520	2
IC809	74HCU04, Logic		J040740400200	1	R830	Chip Thick	27 kohm 1/10 W J		1	R957	Carbon Film	100 kohm	1/5 W J	C00001046P520	1
IC810	uPD78044		J020828521220	1	R831/832	Chip Thick	10 kohm 1/10 W J		2	R958	Metal Film			C06001026P520	1
IC811/812	HY534256, Memory RAM		J001534256000	2	R833	Chip Thick	47 kohm 1/10 W J		1	R959	Carbon Film			C00001036P520	1
IC813	74HC04, Logic		J040740400210		R834	Chip Thick	120 ohm 1/10 W J		1	R960	Carbon Film			C00001836P520	
IC814~816	NJM2068M, Linear OP		J121206800020	3	R835	Chip Thick	47 kohm 1/10 W J		1	R961/962	Carbon Film			C00001036P520	
					R836	Chip Thick	470 ohm 1/10 W J		1	R963	Metal Film			C06002226P520	
	Transistors				R837/838	Chip Thick	47 kohm 1/10 W J		2	R964	Carbon Film			C00001046P520	
Q801/802	2SC1740S, NPN		J5021740S0010	2	R839/840	Chip Thick	10 kohm 1/10 W J			R965/968	Carbon Film	10 kohm	1/5 W J	C00001036P520	2
Q803/804	2SA933S, PNP		J5000933S0050		R841~843	Chip Thick	47 kohm 1/10 W J	C200047360200	3	R982	Metal Film	2.2 kohm	1/5 W J	C06002226P520	1
Q805/806	2SC1740S, NPN		J5021740S0010		R844/845	Chip Thick	10 kohm 1/10 W J								
Q807	DTC114TS, PNP		J600114TS0050	1	R846	Chip Thick	1 kohm 1/10 W J		1		Miscellaneous				
Q808	DTA114YS, PNP		J601114YS0050	1	R847~856	Chip Thick	47 kohm 1/10 W J	C200047360200	10	CP941	Wafer 2.5MM, 6P			L102526700600	1
Q809L/R	DTC323TK, NPN		J502323000050	2	R857	Chip Thick	10 kohm 1/10 W J		1						
Q810C/W	DTC323TK, NPN		J502323000050		R858	Chip Thick	470 ohm 1/10 W J		1						
Q811SL/SR	DTC323TK, NPN		J502323000050		R859/860	Chip Thick	47 kohm 1/10 W J	C200047360200	2	▶ FRONT PCR AS	S'Y (PCB4) INCLUDES THE F	OLLOWING BOAR	DS.		
Q812	DTC114YS, NPN		J6020114Y0050	1	R861/862	Chip Thick	100 ohm 1/10 W J			(1) THE ASS'Y PO				•	
					R863/864	Chip Thick	22 kohm 1/10 W J		2		OB HP/SPK SWITCH (PCB6).				
	Resistors				R865	Chip Thick	5.1 kohm 1/10 W J		1		B TACT SWITCH (PCB7).				
R750		kohm 1/10 W J	J C200010460200	1	R866	Chip Thick	1 Mohm 1/10 W J		1		CB PUSH SWITCH (PCB8).				
R750C/W			J C200010460200		R867	Chip Thick	47 kohm 1/10 W J		1		CB ENCODER (PCB9).				
R751	•		J C200022460200		R868/869	Chip Thick	470 ohm 1/10 W J		2	(3) IFE A33 TP	ים ביונטטבת (דטם).				
R752L/R			J C200010160200		R870	Chip Thick	33 kohm 1/10 W J		1	L BIRLIT BOD CO.	OV (DODAN) INOL LIBER TITE T	OLI OMENIO DO - T	ne		
R753L/R	•		C200033260200		R871~876	Chip Thick	10 kohm 1/10 W J				SY (PCB10) INCLUDES THE F	ULLUWING BOAR	D2.		
—	•		C200033260200	1	R878~880	Chip Thick	470 ohm 1/10 W J		3		CB INPUT&VIDEO (PCB11).				
R754			C200010460200	2	R881	Chip Thick	82 ohm 1/10 W J		1	(2) THE ASS'Y PO	CB SPEAKER (PCB12).				
R754 R754L/R	CHIP THICK 100		J C200010260200		R882	Chip Thick	680 ohm 1/10 W J		1						
		MOININ INTO 44 P				Chin Thield	4.7 trabas 4/40 tal 1	C200047260200	1						
R754L/R	Chip Thick 1		J C200015060200		R883	Chip Thick	4.7 kohm 1/10 W J								
R754L/R R755L/R	Chip Thick 1 Chip Thick 15	ohm 1/10 W J		2	R884	Chip Thick	10 kohm 1/10 W J	C200010360200	1						
R754L/R R755L/R R756/757	Chip Thick 1 Chip Thick 15 Chip Thick 100	ohm 1/10 W J ohm 1/10 W J	J C200015060200	2	R884 R885~888	Chip Thick Chip Thick	10 kohm 1/10 W J 100 kohm 1/10 W J	C200010360200 C200010460200	1 4						
R754L/R R755L/R R756/757 R758C/W	Chip Thick 1 Chip Thick 15 Chip Thick 100 Chip Thick 3.3	ohm 1/10 W J ohm 1/10 W J kohm 1/10 W J	J C200015060200 J C200010160200	2 2 2	R884	Chip Thick	10 kohm 1/10 W J	C200010360200 C200010460200 C200018360200	1						

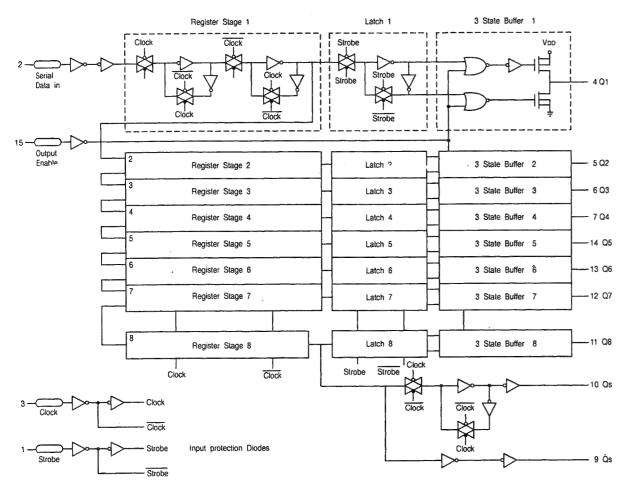
IC FUNCTIONAL BLOCK DIAGRAM

Model No.: R-925R/R-925RDS

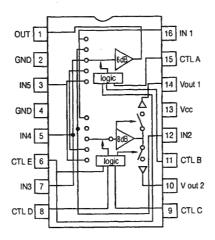
IC1: LM7001M



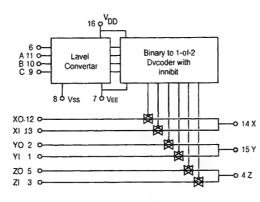
IC 453: MC 14094B



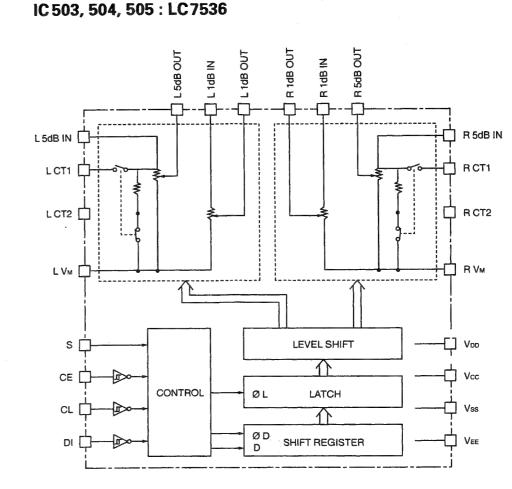
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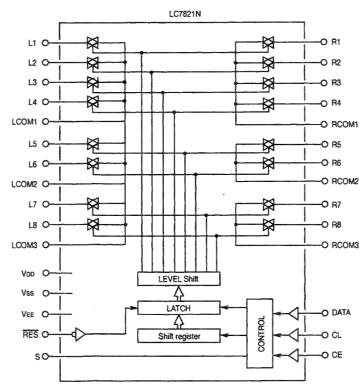
IC 452, 502: MC 14053B

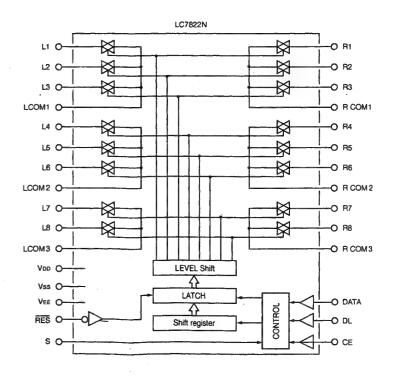


IC 401, 450: LC782IN

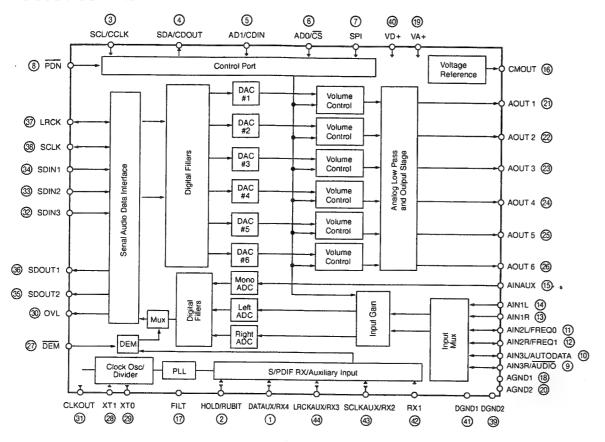


IC 501: LC7822N

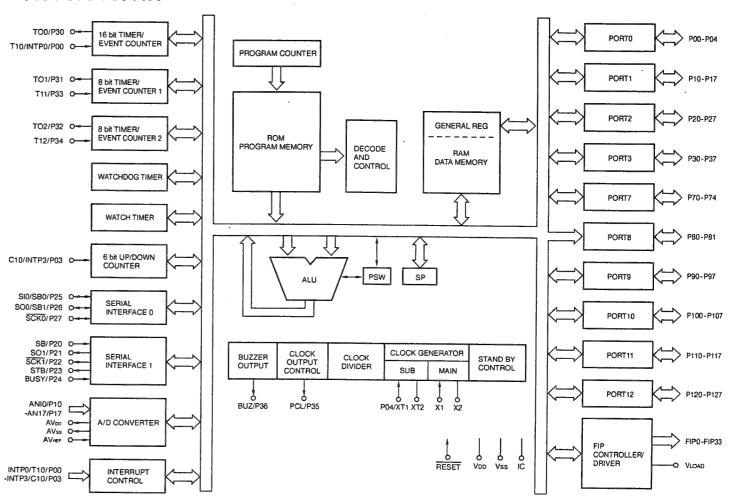




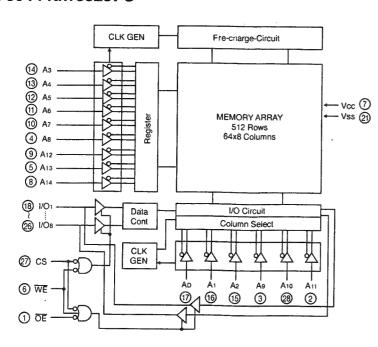
IC 806: CS 4226



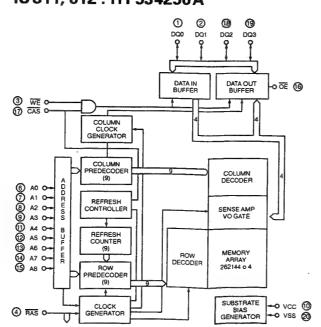
IC 810: UPD 78044A



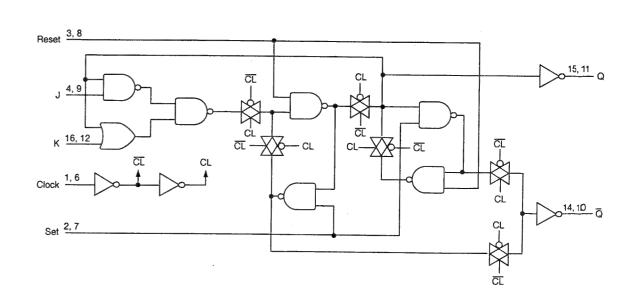
IC 804: KM 68257 C

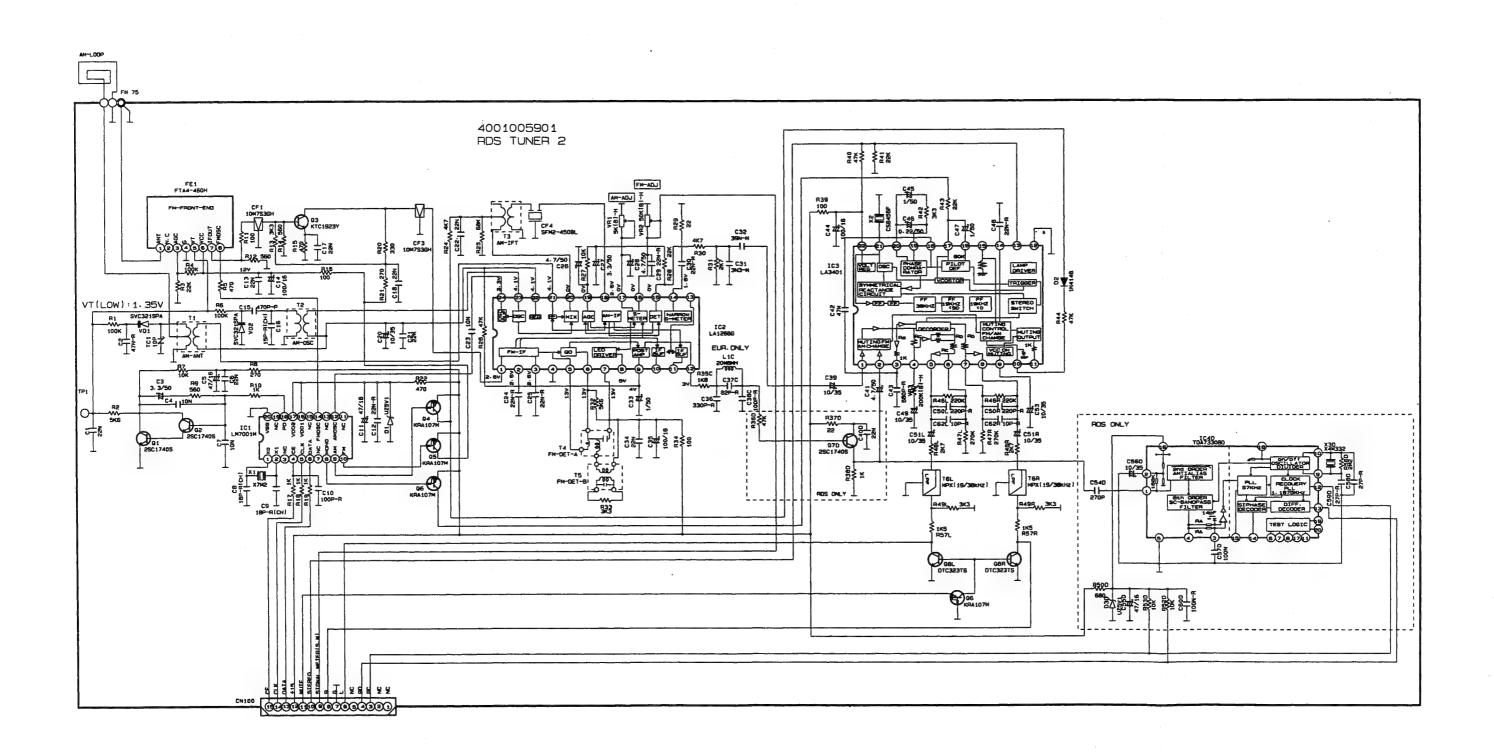


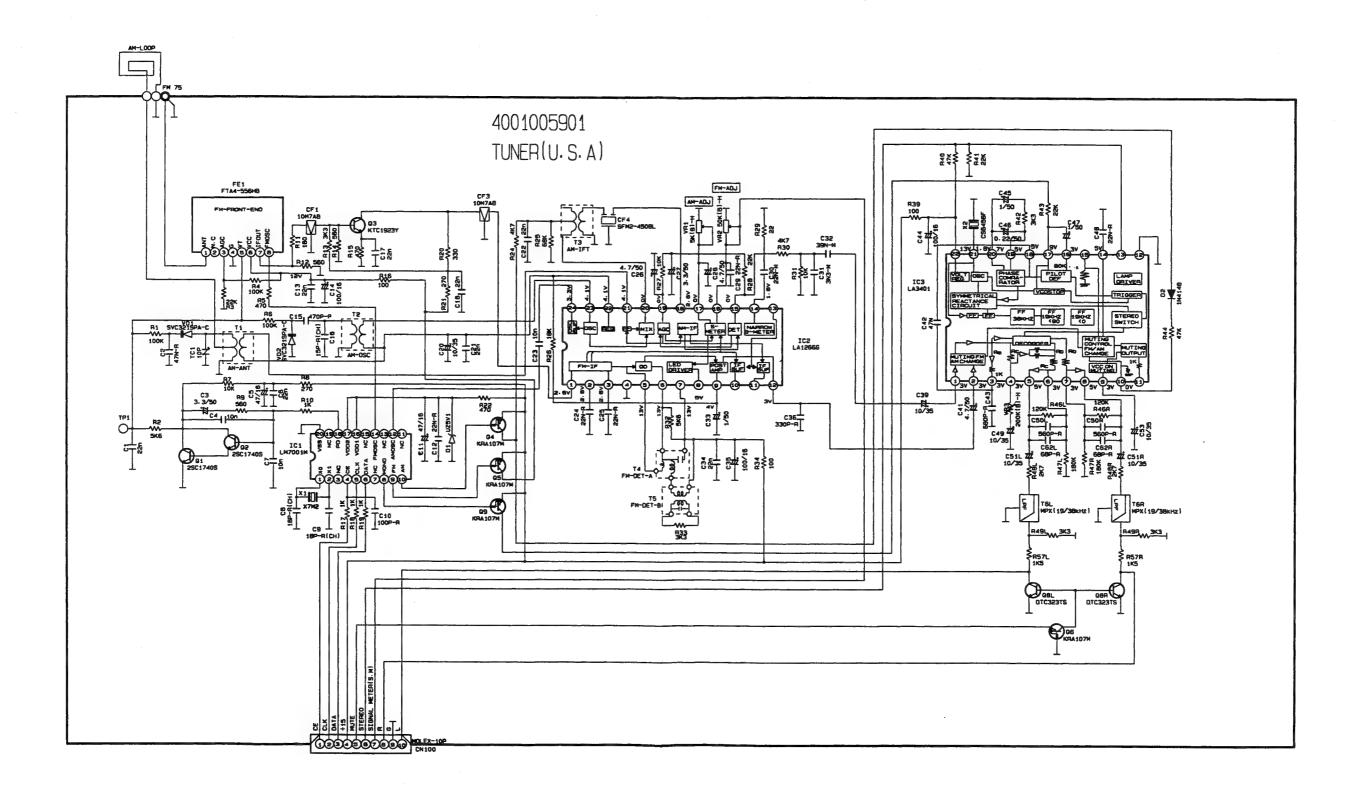
IC 811, 812 : HY534256A

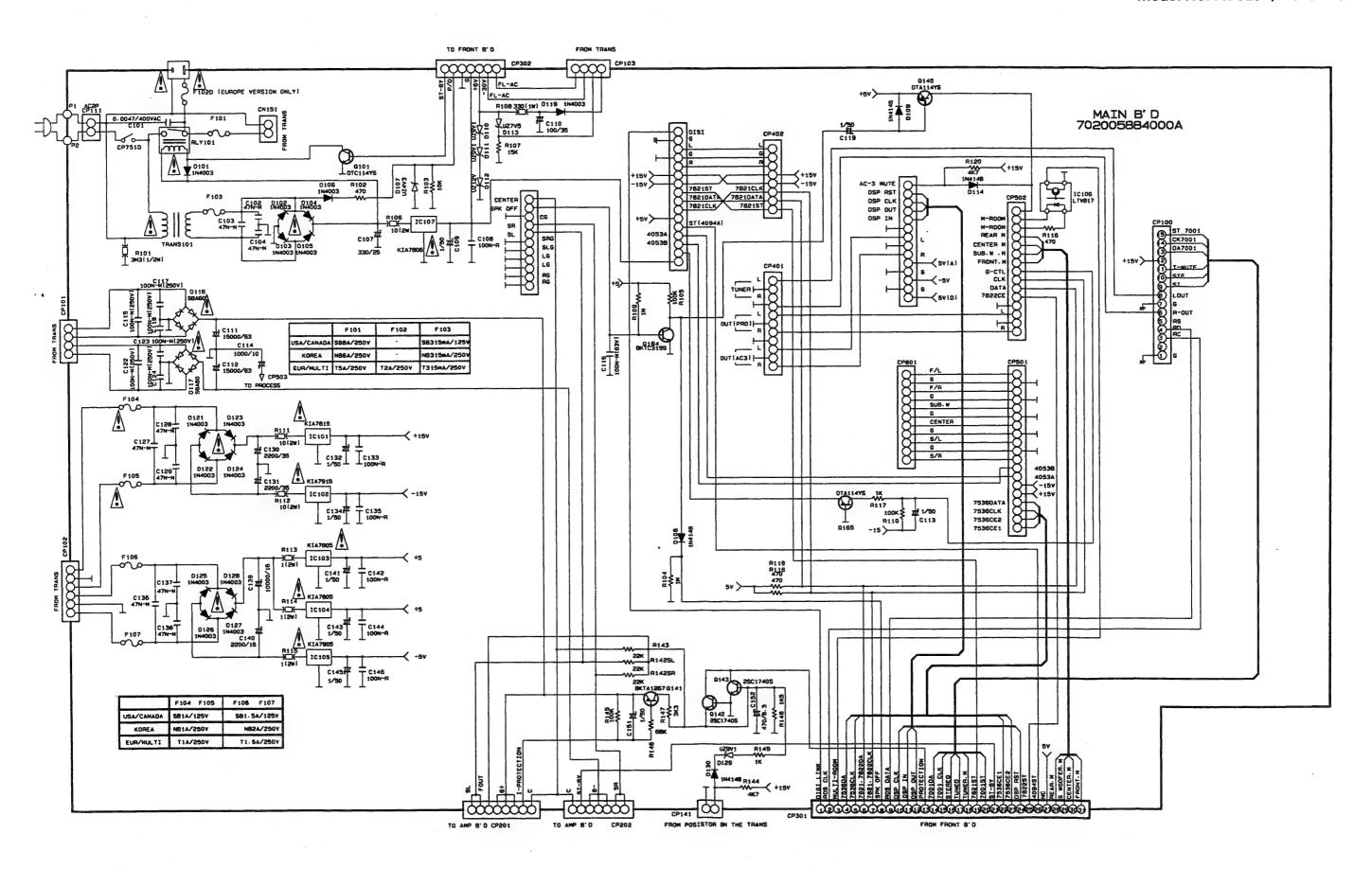


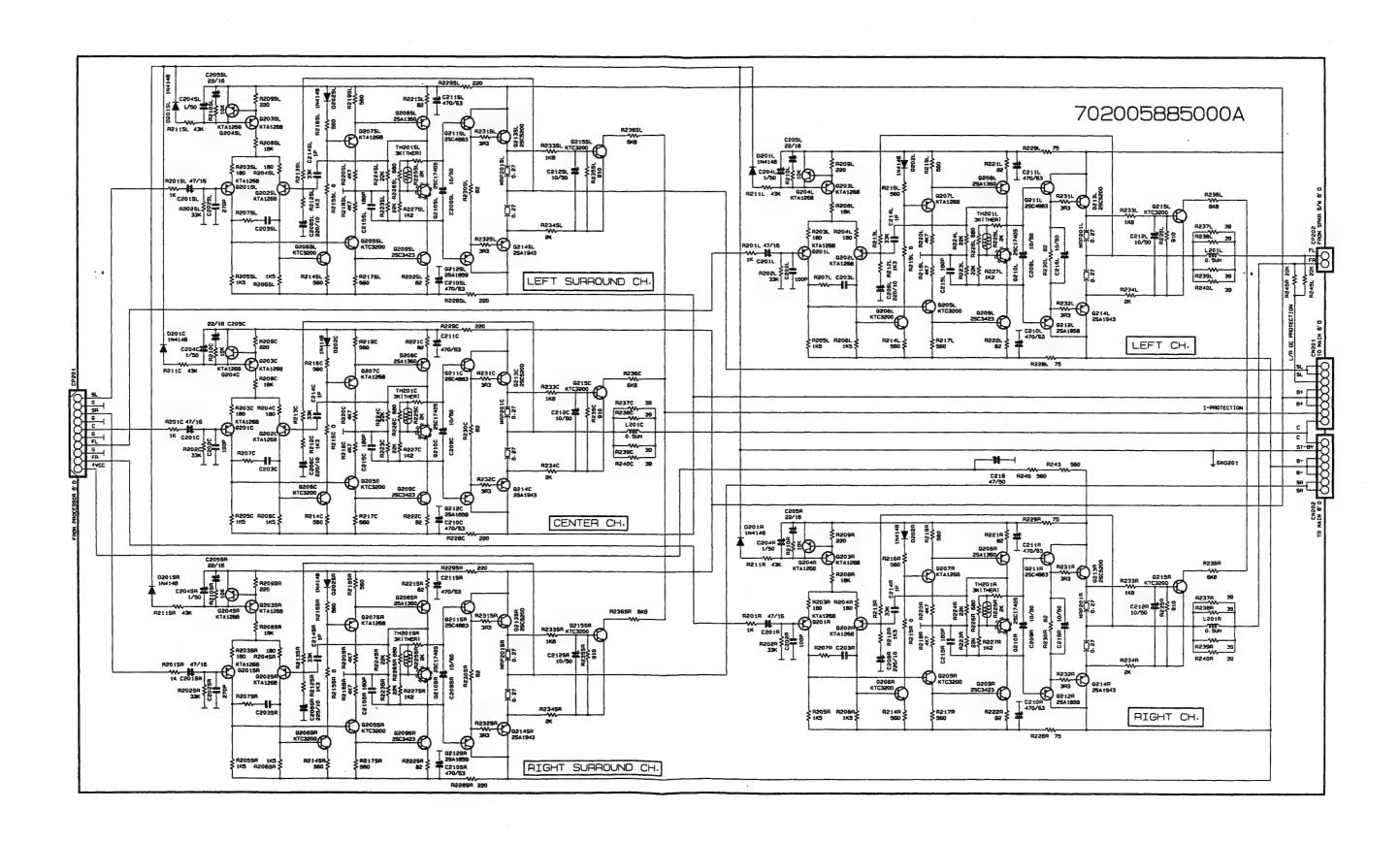
IC 808: MC74HC76

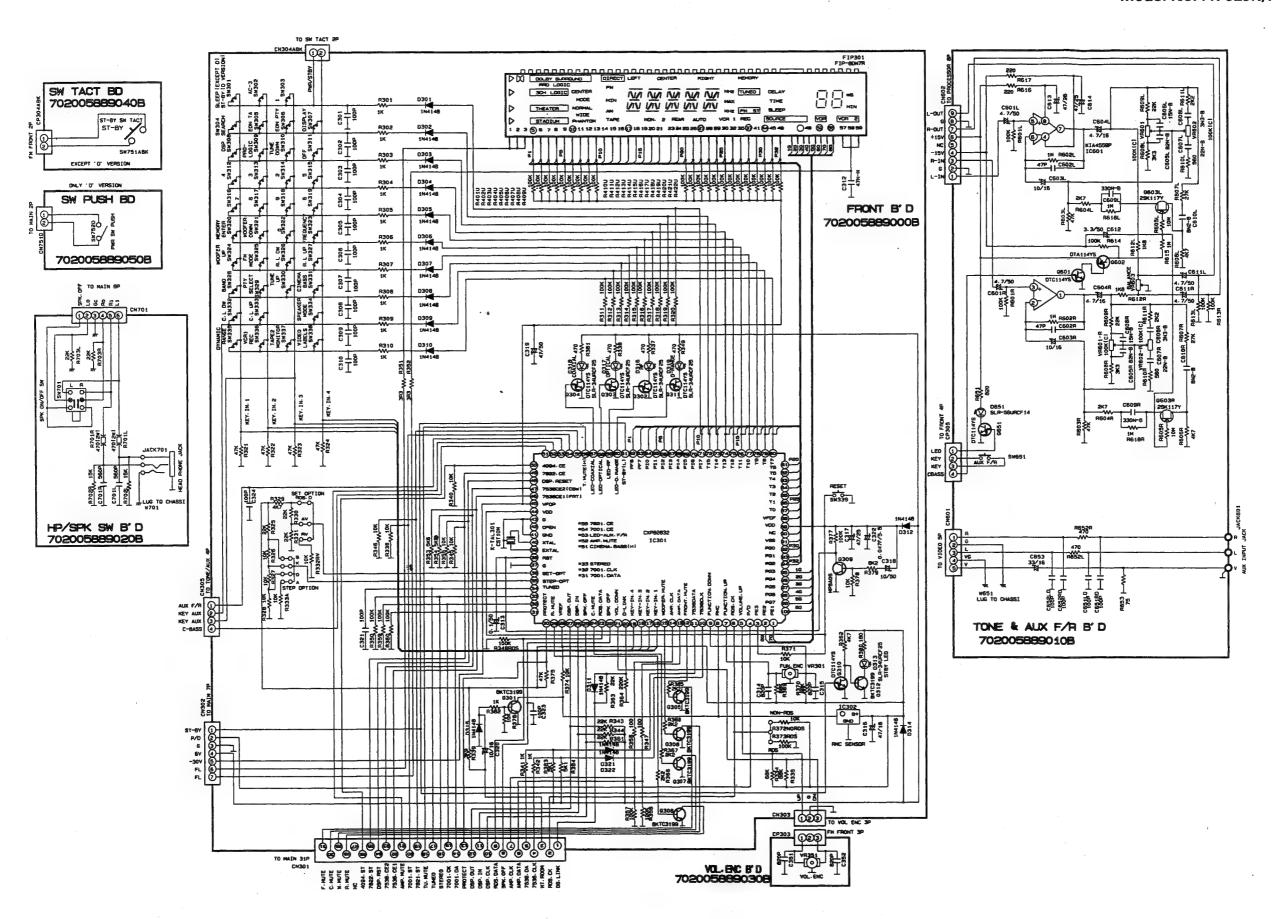






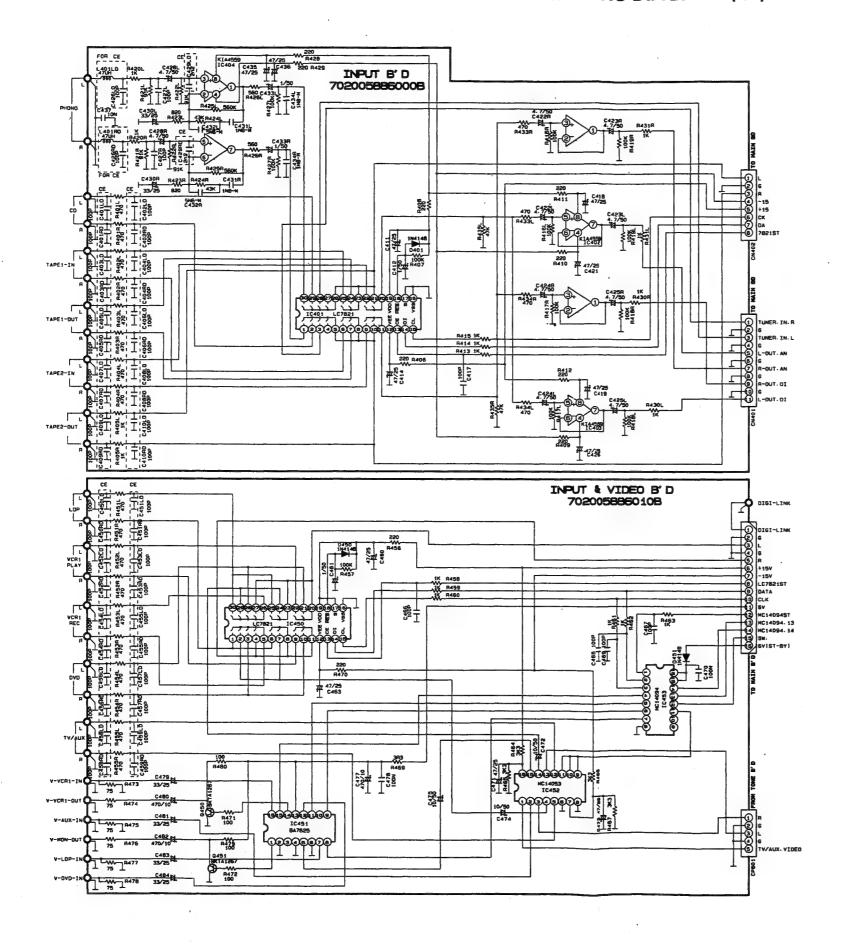


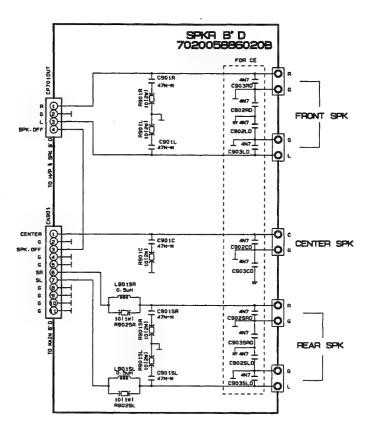


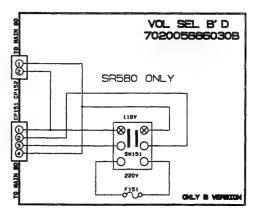


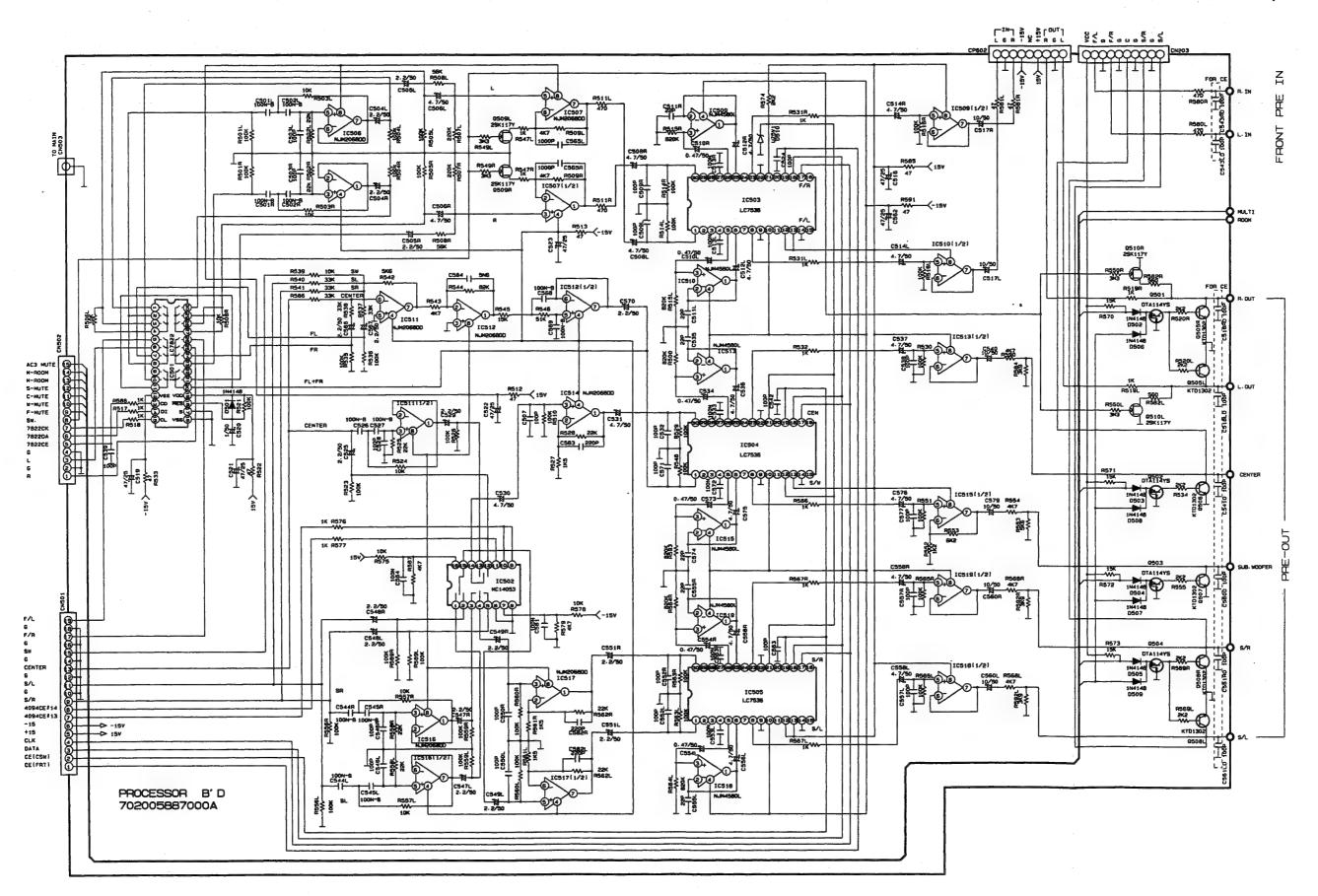
SCHEMATIC DIAGRAM (VI)

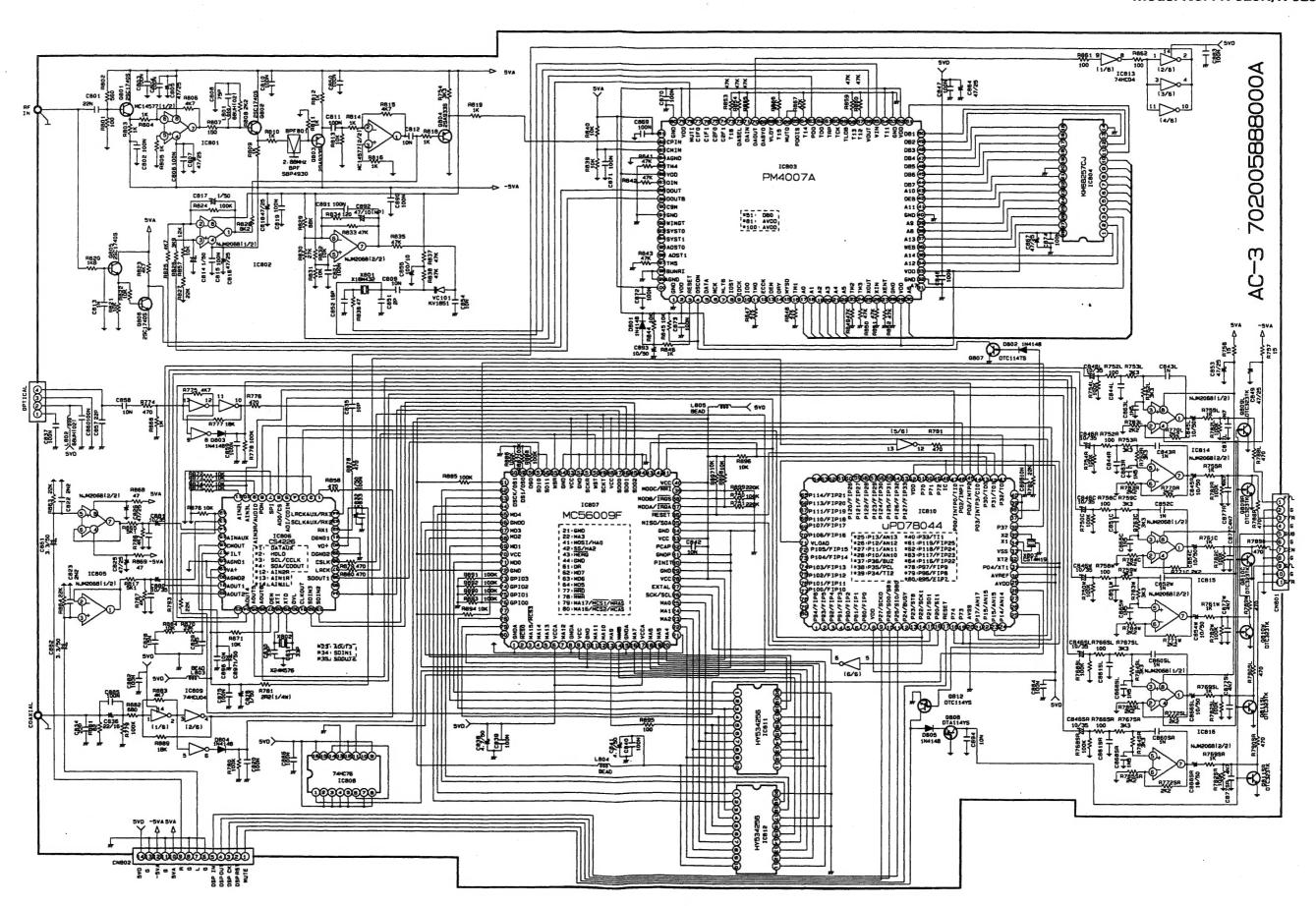
Model No.: R-925R/R-925RDS





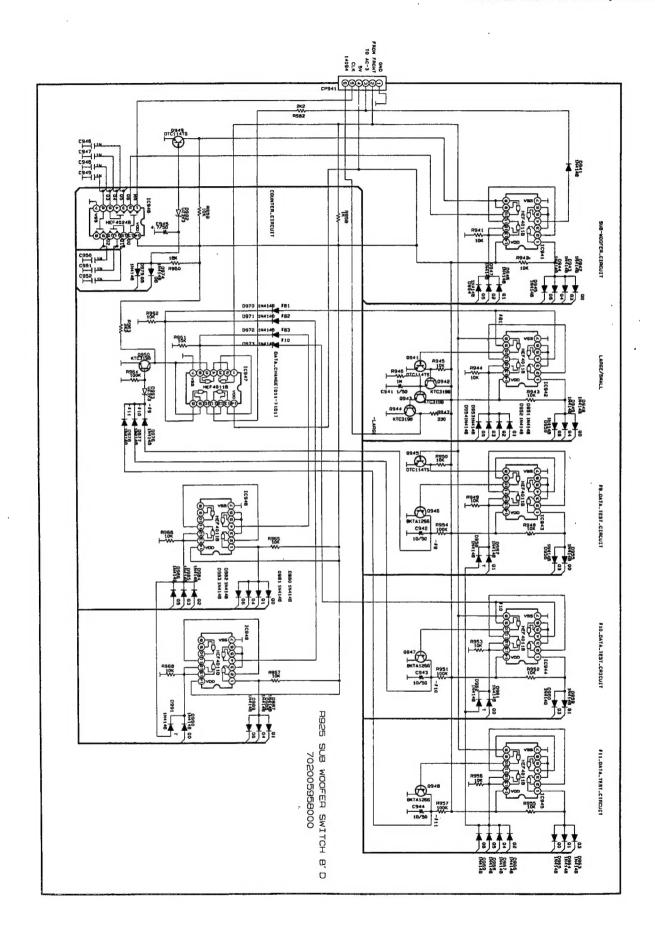






SCHEMATIC DIAGRAM (IX)

Model No.: R-925R/R-925RDS



AC-3 NEW PARTS for R-925

PART	ITEM	MAKER	REMARK	BLOCK	EXTERIOR
AMP	2SC5200		POWER TR		
	2SA1943		POWER TR		
	2SC1740S		BIAS TR		
	2SC4883				
	2SA1859				
MAIN	SBA60		DIODE		
	LTV817				
	KIA7815				
FRONT	CPU	SONY	SONY 100PIN		
AC-3	XCF56009FJ81	MOTOROLA	DSP	• •	
	CS4226	CRYSTAL	A/D/A CONVERTER		
	PM4007A	PIONEER	DEMODULATER		
	KM68257CJ-15	SAMSUNG	SRAM		
	MC74HCU04ADR2	MOTOROLA	INVERTER,CHIP		
	MC74HC04AD	MOTOROLA	INVERTER,CHIP		
	SUB CPU	NEC	NEC 80PIN		
	BPF SBP-4930	TDK	2.88MHz		
	KV1851	токо	VARACTOR		
	MC74HC76N	MOTOROLA	J-K FF,CHIP		
	MC14577CP	MOTOROLA			
	NJM2068M	JRC	CHIP		
PROCESSOR	LC7536	SANYO	VOL IC		
	NJM4580L	JRC	OP-AMP		
	MC14053BD	MOTOROLA	SWITCHING,CHIP		
	LC7822	SANYO			
	NJM2068DD	JRC	OP-AMP		
INPUT	BA7625				
	MC14094				
	KIA4559				
	LC7821	SANYO			
	HY534256ALJ-60	HYUNDAI	DRAM(1M)		

PIN CONNECTION DIAGRAM OF DIODES, TRANSISTORS AND ICS

BA7625 74HC76 MC14053 MC14094	LC7821 LC7822 LC7536	CXP82852 UPD78044 MC56009F 65 64 80 24 25	LM7001/M TDA7330BD
LA3401 LA1266	NJM2068	KIA4559P/KIA7555P NJM4580L	PM4007A 81 80 51 50 50 30 31
CS4226	KA7815 KA7806 KA7805	MPSA06 E B C	SK117
2SA1360 2SC3423	KA7915 KA7905	DTA114YS KRA107N DTC323TS 2SC3199Y 2SC1740 KTA1267	2SC3855/2SC3854 2SA1491/2SA1490
KTC2240/KTC3200 KTC1923Y/KTC3194 KTA1268	D5SBA60	ZENER IN4003 IN4148	SVC321SPA-C